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Essentials of Bridge Engineering

First published in 1995, the award-winning Civil Engineering Handbook soon became known as the field's definitive reference. To retain its standing as a complete, authoritative resource, the editors have incorporated into this edition the many changes in techniques, tools, and materials that over the last seven years have found their way into civil

The Civil Engineering Handbook

This report outlines 21 foundational, technical, and professional practice learning outcomes for individuals entering the professional practice of civil engineering.

Waste Water Engineering

This publication establishes a basic understanding of materials used in civil engineering construction as taught in tertiary institutions across South Africa. It uses the objectives of the NQF in promoting independent learning and is the only book pertaining to Civil Engineering that covers all the necessary topics under one roof.

Civil Engineering Body of Knowledge

The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. For courses in Civil Engineering Materials, Construction Materials, and Construction Methods & Materials offered in Civil, Environmental, or Construction engineering departments. Materials for Civil and Construction Engineers helps students

understand and select the materials involved in supporting the infrastructure needs of society--from buildings, to water and treatment distribution systems, to dams, highways, and airport pavements. By gaining a deep understanding of material behavior and the material selection process, students can begin to understand how to create and maintain civil and construction engineering systems crucial to society. The primary focus of the updates presented in this fourth edition was on the sustainability of materials used in civil and construction engineering. The information on sustainability was updated and expanded to include the most recent information. In addition, sections were added describing the sustainability considerations of each material. The problem set for each chapter was updated and increased to provide some fresh exercises. References were updated and increased in all chapters to provide students with additional reading on current issues related to different materials.

Construction Materials for Civil Engineering

After an examination of fundamental theories as applied to civil engineering, authoritative coverage is included on design practice for certain materials and specific structures and applications. A particular feature is the incorporation of chapters on construction and site practice, including contract management and control.

Materials for Civil and Construction Engineers, SI Edition

Many Advance in design,fabricationand construction of steel structures have taken place with the advancement of technology and globalization.Steel structures are used extensively in industrial structures in addition to bridges,tower and communication networks.steel cables of high tensile wires are also being used very extensively in the industry.

Civil Engineer's Reference Book

This book covers all aspects of operational modal analysis for civil engineering, from theoretical background to applications, including measurement hardware, software development, and data processing. In particular, this book provides an extensive description and discussion of OMA methods, their classification and relationship, and advantages and drawbacks. The authors cover both the well-established theoretical background of OMA methods and the most recent developments in the field, providing detailed examples to help the reader better understand the concepts and potentialities of the technique. Additional material is provided (data, software) to help practitioners and students become familiar with OMA. Covering a range of different aspects of OMA, always with the application in mind, the practical perspective adopted in this book makes it ideal for a wide range of readers from researchers to field engineers; graduate and undergraduate students; and technicians interested in structural dynamics, system identification, and Structural Health Monitoring. This book also: Analyzes OMA methods extensively, providing details on implementation not easily found in the literature Offers tutorial for development of customized measurement and data processing systems for LabView and National Instruments programmable hardware Discusses different solutions for automated OMA Contains many explanatory applications on real structures Provides detail on applications of OMA beyond system identification, such as (vibration based monitoring, tensile load estimation, etc.) Includes both theory and applications

Design of Steel Structures

This updated edition retains its introduction to applied fundamental statistics, probability, reliability, and decision theory as these pertain to problems in Civil Engineering. The new edition adds an expanded treatment of systems reliability, Bayesian methods, and spatial variability, along with additional example problems throughout. The book provides readers with the tools needed to determine the probability of failure, and when multiplied by the consequences of failure, illustrates how to assess the risk of civil engineering problems. Presenting methods for quantifying uncertainty that exists in engineering analysis and design, with an emphasis on fostering more accurate analysis and design, the text is ideal for students and practitioners of a range of civil engineering disciplines. Expands on the class-tested pedagogy from the first edition with more material and more examples; Broadens understanding with simulations coded both in Matlab and in R; Features new chapters on spatial variability and Bayesian methods; Emphasizes techniques for estimating the influence of uncertainty on the probability of failure

Operational Modal Analysis of Civil Engineering Structures

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Applied Civil Engineering Risk Analysis

„Mechanics, Models and Methods in Civil Engineering” collects leading papers dealing with actual Civil Engineering problems. The approach is in the line of the Italian-French school and therefore deeply couples mechanics and mathematics creating new predictive theories, enhancing clarity in understanding, and improving effectiveness in applications. The authors of the contributions collected here belong to the Lagrange Laboratory, an European Research Network active since many years. This book will be of a major interest for the reader aware of modern Civil Engineering.

The Civil Engineer's Pocket-Book

Manage everyday calculations instantly and accurately-saving you time in the design, construction, and maintenance of all types of structures Covering all aspects of civil engineering calculations in an easy-to-understand format, the new edition of the Handbook of Civil Engineering Calculations is now revised and updated with over 500 key calculations that show you exactly how to compute the desired values for a particular design-going quickly from data to finished result. Using both customary and SI units, this comprehensive engineer's must-have resource is exactly what you need to solve the civil engineering problems that come your way. From structural steel to reinforced concrete, from bridges and dams to highways and roads, Handbook of Civil Engineering Calculations, 2e, lets you handle all of these design calculations quickly-and more importantly, correctly. NEW TO THIS EDITION: Updated calculation procedures using the latest applicable design codes for everything-from structural steel to reinforced concrete, from water supply to highways, freeways, roads, and more A wealth of new illustrated calculation procedures to provide better guidance for the design engineer New civil-engineering data on “green” buildings and their design, better qualifying them for LEED (Leadership in Energy and Environmental Design) ratings Inside This Cutting-Edge Engineering Calculations Guide-Structural Steel Engineering and Design • Reinforced and Prestressed Concrete Engineering and Design • Timber Engineering • Soil Mechanics • Surveying, Route Design, and Highway Bridges • Fluid Mechanic, Pumps, Piping, and Hydro Power • Water Supply

Mechanics, Models and Methods in Civil Engineering

This expansive volume presents the essential topics related to construction materials composition and their practical application in structures and civil installations. The book's diverse slate of expert authors assemble invaluable case examples and performance data on the most important groups of materials used in construction, highlighting aspects such as nomenclature, the properties, the manufacturing processes, the selection criteria, the products/applications, the life cycle and recyclability, and the normalization. Civil Engineering Materials: Science, Processing, and Design is ideal for practicing architects; civil, construction, and structural engineers, and serves as a comprehensive reference for students of these disciplines. This book also: · Provides a substantial and detailed overview of traditional materials used in structures and civil infrastructure · Discusses properties of natural and synthetic materials in construction and materials' manufacturing processes · Addresses topics important to professionals working with structural materials, such as corrosion, nanomaterials, materials life cycle, not often covered outside of journal literature · Diverse author team presents expert perspective from civil engineering, construction, and architecture · Features a detailed glossary of terms and over 400 illustrations

Handbook of Civil Engineering Calculations, Second Edition

The third edition of this well-accepted textbook continues in its tradition of presenting the applications of principles, with the addition of a new chapter ""Double Integration Method"" for a complete treatment on ""Analysis of Determinate Structures". This new chapter will make the reader understand the

development of deflection analysis. This book caters to the needs of the student who enters the portals of Civil Engineering Department in the second year of UG programs. It will also be useful to understand the basic principles of structural analysis, energy principles, concepts of loads, arches, bridges, beams, analysis of statically determinate structures, and importance of influence line diagrams in analyzing problems on indeterminate beams. Moreover, the book can aid solving of basic structural engineering problems in an easy-to-follow and simple manner, avoiding unnecessary mathematical gymnastics and, instead, emphasizing on the engineering applications. The book takes an outcome-based learning approach, where the authors ensure that the students engage well with the contents of each chapter and the expected learning outcomes are achieved by them. Realizing the importance for a systematic approach to problem solving, Bloom's Taxonomy has been applied while designing the contents of the book, so that the students systematically learn to remember, understand, analyze, apply, evaluate and create learning. A large number of practical problems from various university and competitive examinations, presented in the book, will help students get a feel of the problems encountered in the real world. These will also help them during taking their own examinations. Updated chapters and inclusion of a new ""Double Integration Method"" extends the scope of the book, making it suitable to postgraduate level courses as well. Every topic is illustrated with a large number of worked out numerical examples. Contains problems from university and competitive examinations. Provides exercises in every chapter in an orderly way for self-study.

Materials for Construction and Civil Engineering

Instant Access to Civil Engineering Formulas Fully updated and packed with more than 500 new formulas, this book offers a single compilation of all essential civil engineering formulas and equations in one easy-to-use reference. Practical, accurate data is presented in USCS and SI units for maximum convenience. Follow the calculation procedures inside Civil Engineering Formulas, Second Edition, and get precise results with minimum time and effort. Each chapter is a quick reference to a well-defined topic, including: Beams and girders Columns Piles and piling Concrete structures Timber engineering Surveying Soils and earthwork Building structures Bridges and suspension cables Highways and roads Hydraulics, dams, and waterworks Power-generation wind turbines Stormwater Wastewater treatment Reinforced concrete Green buildings Environmental protection

Basic Structural Analysis

'Unposted Letters' by Mahtria Ra is one of those books that aims to transcend all religions and castes, and touch the core of the readers in a profound way irrespective of their social position, status and the likes. 'Unposted Letters' is a spiritual and inspirational book that urges the readers to find happiness in every small things and feel the presence of God Almighty everywhere. By illustrating the simple with the powerful, this is a book that deals with knowledge and enlightenment and talks about Life as it is, about how it should be led that is bereft of any jealousy and wrath. Published by Manjul Publishing House, this book is available in hardcover.

Basic Civil Engineering

It's a Excel basics book that every civil engineer should have read by now. It addresses skills that may not be covered in most Excel for civil engineering texts, such as step by step guides to create an application program and how to convert the steps into VBA code, how to perform matrix operations (multiplication and inversion) using Excel-VBA, macro for creating an engineering chart, a brief and simple guide to become an instant Excel-VBA programmer, and more... Also to be presented the depiction in AutoCAD program. Yes! AutoCAD is chosen because one of its advantages that relies on high drawing accuracy. You will learn how to create a simple AutoCAD script file using Excel formulas and Excel-VBA. It is expected that you will be able to create simple Cartesian graph in AutoCAD, even you are an AutoCAD first time user! With the ease of working with Excel, coupled with benefit of the given examples in this book, it is expected to increase the interest of the reader to create new original application programs. Thus, each model or even a specific calculation will be an exciting challenge for a programming job is already enjoyable. Happy Excel programming!

Civil Engineering Formulas

Richard Weingardt provides a unique view into the history and progress of 32 great American civil engineers, from the 1700s to the present.

Unposted Letter (English)

p="" This book comprises select proceedings of the First International Conference on Urban Science and Engineering. The focus of the conference was on the milieu of urban planning while applying technology which ensures better urban life, coupled with sensitivity to depleting natural resources and focus on sustainable development. The contents focus on sustainable infrastructure, mobility and planning, urban water and sanitization, green construction materials, optimization and innovation in structural design, and more. This book aims to provide up-to-date and authoritative knowledge from both industrial and academic worlds, sharing best practice in the field of urban science and engineering. This book is beneficial to students, researchers, and professionals working in the field of smart materials and sustainable development. ^

A Textbook of Strength of Materials

Civil Engineering Materials explains why construction materials behave the way they do. It covers the construction materials content for undergraduate courses in civil engineering and related subjects and serves as a valuable reference for professionals working in the construction industry. The book concentrates on demonstrating methods to obtain, analyse and use information rather than focusing on presenting large amounts of data. Beginning with basic properties of materials, it moves on to more complex areas such as the theory of concrete durability and corrosion of steel. Discusses the broad scope of traditional, emerging, and non-structural materials Explains what material properties such as specific heat, thermal conductivity and electrical resistivity are and how they can be used to calculate the performance of construction materials. Contains numerous worked examples with detailed solutions that provide precise references to the relevant equations in the text. Includes a detailed section on how to write reports as well as a full section on how to use and interpret publications, giving students and early career professionals valuable practical guidance.

Basic Civil Engineering

A well-written, hands-on, single-source guide to the professional practice of civil engineering There is a growing understanding that to be competitive at an international level, civil engineers not only must build on their traditional strengths in technology and science but also must acquire greater mastery of the business of civil engineering. Project management, teamwork, ethics, leadership, and communication have been defined as essential to the successful practice of civil engineering by the ASCE in the 2008 landmark publication, Civil Engineering Body of Knowledge for the 21st Century (BOK2). This single-source guide is the first to take the practical skills defined by the ASCE BOK2 and provide illuminating techniques, quotes, case examples, problems, and information to assist the reader in addressing the many challenges facing civil engineers in the real world. Civil Engineer's Handbook of Professional Practice: Focuses on the business and management aspects of a civil engineer's job, providing students and practitioners with sound business management principles Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies Offers proven methods for balancing speed, quality, and price with contracting and legal issues in a client-oriented profession Includes guidance on juggling career goals, life outside work, compensation, and growth From the challenge of sustainability to the rigors of problem recognition and solving, this book is an essential tool for those practicing civil engineering.

An Introduction to Excel for Civil Engineers

Find Practical Solutions to Civil Engineering Design and Cost Management Problems A guide to successfully designing, estimating, and scheduling a civil engineering project, Integrated Design and Cost Management for Civil Engineers shows how practicing professionals can design fit-for-use solutions within established time frames and reliable budgets. This text combines technical compliance with practical solutions in relation to cost planning, estimating, time, and cost control. It incorporates solutions that are technically sound as well as cost effective and time efficient. It focuses on the integration of design and construction based on solid engineering foundations contained within a code of ethics, and navigates engineers through the complete process of project design, pricing, and tendering. Well illustrated The book uses cases studies to illustrate principles and processes. Although they center on Australasia and Southeast Asia, the principles are internationally relevant. The material details procedures that emphasize the correct quantification and planning of works, resulting in reliable cost and time predictions. It also works toward minimizing the risk of losing business through cost blowouts or losing profits through underestimation. This Text Details the Quest for Practical Solutions

That: Are cost effective Can be completed within a reasonable timeline Conform to relevant quality controls Are framed within appropriate contract documents Satisfy ethical professional procedures, and Address the client's brief through a structured approach to integrated design and cost management Designed to help civil engineers develop and apply a multitude of skill bases, Integrated Design and Cost Management for Civil Engineers can aid them in maintaining relevancy in appropriate design justifications, guide work tasks, control costs, and structure project timelines. The book is an ideal link between a civil engineering course and practice.

Engineering Legends

This text primarily analyses different methods of design of concrete structures as per IS 456: 2000 (Plain and Reinforced Concrete—Indian Standard Code of Practice, 4th revision, Bureau of Indian Standards). It gives greater emphasis on the limit state method so as to illustrate the acceptable limits for the safety and serviceability requirements of structures. Besides dealing with yield line analysis for slabs, the book explains the working stress method and its use for designing reinforced concrete tension members, theory of redistribution of moments, and earthquake resistant design of structures. This well-structured book develops an effective understanding of the theory through numerous solved problems, presenting step-by-step calculations. The use of SP-16 (Design Aids for Reinforced Concrete to IS: 456–1978) has also been explained in solving the problems. **KEY FEATURES :** Instructional Objectives at the beginning of the chapter highlight important concepts. Summary at the end of the chapter to help student revise key points. Sixty-nine solved illustrative examples presenting step-by-step calculations. Chapter-end exercises to test student's understanding of the concepts. Forty Tests to enable students to gauge their preparedness for actual exams. This comprehensive text is suitable for undergraduate students of civil engineering and architecture. It can also be useful to professional engineers.

Urban Science and Engineering

This book presents selected articles from the 4th International Conference on Architecture and Civil Engineering 2020, held in Kuala Lumpur, Malaysia. Written by leading researchers and industry professionals, the papers highlight recent advances and address the current issues in the fields of civil engineering and architecture.

Civil Engineering Materials

This seasoned textbook introduces geology for civil engineering students. It covers minerals and rocks, superficial deposits and the distribution of rocks at or below the surface. It then looks at groundwater and gives guidance on the exploration of a site before looking at the civil engineering implications of rocks and the main geological factors which affect typical engineering projects.

Civil Engineer's Handbook of Professional Practice

Basic Civil Engineering is designed to enrich the preliminary conceptual knowledge about civil engineering to the students of non-civil branches of engineering. The coverage includes materials for construction, building construction, basic surveying and other major topics like environmental engineering, geo-technical engineering, transport traffic and urban engineering, irrigation & water supply engineering and CAD.

Integrated Design and Cost Management for Civil Engineers

Materials prices are still rising for most products, subcontract prices are volatile, tender prices falling... What's happening in detail and where are things heading in this demanding market? Spon's Civil Engineering and Highway Works Price Book 2010 is more than just a price book. It provides a comprehensive work manual that many in the civil engineering, surveying and construction business will find it hard to work without. It gives costs for both general and civil engineering works and highway works, and shows a full breakdown of labour, plant and material elements, with labour rates updated in line with the latest CIJC wage agreement. This 24th edition, in its easy to read format, incorporates a comprehensive review throughout Assumptions on overheads and profits have been revised downwards Preliminaries have been cut, on a lower cost base Labour rates have been adjusted to reflect today's economic climate Tunnelling rates are too volatile this year and have been removed from this edition Structured to comply with CESMM3 and MMHW, the book includes prices and rates covering everything from ladders to lighting systems and canal dredging to cycle stands. In a time

when it is essential to gain 'competitive advantage' in an increasingly congested market, this price book provides instant-access cost information and is a one-stop reference containing tables, formulae, technical information and professional advice. Buyers of this 2010 edition can make a free internet download of Spon's Civil Engineering and Highway Works price data, which will run to the end of 2010 and: produce estimate and tender documents generate priced or unpriced schedules adjust rates and data and enter rogue items export schedules into Excel carry out an index search This year, for the first time, the download includes a versatile and powerful ebook. Plus the standard features you have come to expect from Spon's Civil Engineering and Highway Works Price Book: For budgeting: estimating principles, on-cost advice, method-related charges For resource costings: labour costs, plant costs, material prices For rapid cost information: approximate estimates, dayworks, cost indices For plant and labour allowances: production rates, outputs, man hour constants For detailed pricing: unit costs with full breakdown, or specialist prices, with advice on item coverage, waste allowances and comparative costs For incidental advice: tables and formulae, technical information, professional advice Updated, free of charge, every four months – see enclosed card to register. Updates are available online at www.pricebooks.co.uk

DESIGN OF CONCRETE STRUCTURES

Studying engineering, whether it is mechanical, electrical or civil relies heavily on an understanding of mathematics. This new textbook clearly demonstrates the relevance of mathematical principles and shows how to apply them to solve real-life engineering problems. It deliberately starts at an elementary level so that students who are starting from a low knowledge base will be able to quickly get up to the level required. Students who have not studied mathematics for some time will find this an excellent refresher. Each chapter starts with the basics before gently increasing in complexity. A full outline of essential definitions, formulae, laws and procedures are introduced before real world situations, practicals and problem solving demonstrate how the theory is applied. Focusing on learning through practice, it contains examples, supported by 1,600 worked problems and 3,000 further problems contained within exercises throughout the text. In addition, 34 revision tests are included at regular intervals. An interactive companion website is also provided containing 2,750 further problems with worked solutions and instructor materials

Advances in Civil Engineering Materials

Structural Analysis: In Theory and Practice provides a comprehensive review of the classical methods of structural analysis and also the recent advances in computer applications. The perfect guide for the Professional Engineer's exam, Williams covers principles of structural analysis to advanced concepts. Methods of analysis are presented in a concise and direct manner and the different methods of approach to a problem are illustrated by specific examples. In addition, the book includes the clear and concise approach to the subject and the focus on the most direct solution to a problem. Numerous worked examples are provided to consolidate the reader's understanding of the topics. Structural Analysis: In Theory and Practice is perfect for anyone who wishes to have handy reference filled with equations, calculations and modeling instructions as well as candidates studying for professional engineering registration examinations. It will also serve as a refresher course and reference manual for practicing engineers. Registered professional engineers and registered structural Numerous worked examples are provided to consolidate the reader's understanding of the topics Comprehensive coverage of the whole field of structural analysis Supplementary problems are given at the end of each chapter with answers provided at the end of the book Realistic situations encountered in practice and test the reader's ability to apply the concepts presented in the chapter Classical methods of structural analysis and also the recent advances in computer applications

Geology for Civil Engineers

All Competitive AE/JE Exam Civil Engineering Capsule

Basic Civil Engineering

ABOUT THE BOOK: The present edition of the book is mostly overhauled and revised. One chapter on Temporary Structures is added in the portion of Building Construction. Now the book is quite up-to-date. This edition of the book is entirely new and different from its previous editions. We hope, the book will prove more useful and will serve its purpose better. **RECOMMENDATIONS:** A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations In S.I Units For

Degree, Diploma and A.I.M.E. (India) Students and Practicing Civil Engineers ABOUT THE AUTHOR: T.D. Ahuja Formerly Head of Civil Engineering Deptt. Allahabad Polytechnic, Allahabad and G.S. Birdi Formerly Head of Structural Engg. Deptt. Allahabad Polytechnic, Allahabad BOOK DETAILS: ISBN: 978-81-89401-47-4 Pages: 331 + 20 Paperback Edition: 9th, Year-2016 Size(cms): L-23.9 B-15.8 H-1.3 For more Offers visit our Website: www.standardbookhouse.com

Spon's Civil Engineering and Highway Works Price

An introduction to key concepts and techniques in probabilistic machine learning for civil engineering students and professionals; with many step-by-step examples, illustrations, and exercises. This book introduces probabilistic machine learning concepts to civil engineering students and professionals, presenting key approaches and techniques in a way that is accessible to readers without a specialized background in statistics or computer science. It presents different methods clearly and directly, through step-by-step examples, illustrations, and exercises. Having mastered the material, readers will be able to understand the more advanced machine learning literature from which this book draws. The book presents key approaches in the three subfields of probabilistic machine learning: supervised learning, unsupervised learning, and reinforcement learning. It first covers the background knowledge required to understand machine learning, including linear algebra and probability theory. It goes on to present Bayesian estimation, which is behind the formulation of both supervised and unsupervised learning methods, and Markov chain Monte Carlo methods, which enable Bayesian estimation in certain complex cases. The book then covers approaches associated with supervised learning, including regression methods and classification methods, and notions associated with unsupervised learning, including clustering, dimensionality reduction, Bayesian networks, state-space models, and model calibration. Finally, the book introduces fundamental concepts of rational decisions in uncertain contexts and rational decision-making in uncertain and sequential contexts. Building on this, the book describes the basics of reinforcement learning, whereby a virtual agent learns how to make optimal decisions through trial and error while interacting with its environment.

A Manual of Civil Engineering

This revised and significantly expanded edition contains a rigorous examination of key concepts, new chapters and discussions within existing chapters, and added reference materials in the appendix, while retaining its classroom-tested approach to helping readers navigate through the deep ideas, vast collection of the fundamental methods of structural analysis. The authors show how to undertake the numerous analytical methods used in structural analysis by focusing on the principal concepts, detailed procedures and results, as well as taking into account the advantages and disadvantages of each method and sphere of their effective application. The end result is a guide to mastering the many intricacies of the range of methods of structural analysis. The book differentiates itself by focusing on extended analysis of beams, plane and spatial trusses, frames, arches, cables and combined structures; extensive application of influence lines for analysis of structures; simple and effective procedures for computation of deflections; introduction to plastic analysis, stability, and free and forced vibration analysis, as well as some special topics. Ten years ago, Professor Igor A. Karnovsky and Olga Lebed crafted a must-read book. Now fully updated, expanded, and titled Advanced Methods of Structural Analysis (Strength, Stability, Vibration), the book is ideal for instructors, civil and structural engineers, as well as researches and graduate and post graduate students with an interest in perfecting structural analysis.

Understanding Engineering Mathematics

Ying-Kit Choi details the guidelines, principles, and philosophy needed to produce design documents for heavy civil engineering projects.

Structural Analysis

Dennis Randolph provides a rich collection of tips and recommendations on how to approach and solve the questions most commonly encountered by engineers at the local government level.

Civil Engineering Capsule

Civil Engineering

