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Principles of foundation engineering Principles of Geotechnical Engineering Elements of Power Systems Mechanics for Engineers: Statics Chemical Engineering Solutions Manual to Accompany, Principles of Geotechnical Engineering, Fourth Edition Chemical Engineering License Problems and Solutions Fundamentals of Geotechnical Engineering Systems Engineering and Analysis of Electro-Optical and Infrared Systems High Voltage Engineering Chemical Engineering Civil Engineering Solutions Manual for Engineering Solid Mechanics Hybrid Computational Intelligent Systems Principles of Foundation Engineering Introduction to Geotechnical Engineering Principles of Geotechnical Engineering Solutions manual : statics and mechanics of materials Distributed Antenna Systems Solutions Manual to Accompany Probability and Deci Sion Concepts in Engineering Planning and Design V Ol Chemical Engineering Chemical Solution Synthesis for Materials Design and Thin Film Device Applications Proceedings of the National Seminar on Applied Systems Engineering and Soft Computing Advances in Mathematical and Computational Modeling of Engineering Systems Theoretical Foundation Engineering Demystifying Numerical Models Solutions to Engineering Mathematics Vol.II Geotechnical Engineering Handbook Agile Manufacturing Systems Design and Modeling of Low Power VLSI Systems Artificial Intelligence, Engineering Systems and Sustainable Development Indoor Radio Planning HCI in Mobility, Transport, and Automotive Systems. Automated Driving and In-Vehicle Experience Design Problems and Solutions in Thermoelasticity and Magneto-thermoelasticity Open Radio Access Network (O-RAN) Systems Architecture and Design Heavy Metals Adsorption Planning and Design of Engineering Systems Electrical Power Systems Federal Register Systems Engineering Simplified

Elements of Power Systems prepares students for engineering degrees, diplomas, Associate Member of the Institution of Engineers (AMIE) examinations, or corresponding examinations in electrical power systems. Complete with case studies, worked examples, and circuit schematic diagrams, this comprehensive text:Provides a solid understanding of the the This two-volume set LNCS 12212 and 12213 constitutes the refereed proceedings of the Second International Conference on HCI in Mobility, Transport, and Automotive Systems, MobiTAS 2020, held as part of the 22nd International Conference on Human-Computer Interaction, HCII 2020, in Copenhagen, Denmark, in July, 2020.* A total of 1439 full papers and 238 posters have been carefully reviewed and accepted for publication in HCII 2020. The papers cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. MobiTAS 2020 includes a total of 59 papers and they are organized in the following topical sections: Part I, Automated Driving and In-Vehicle Experience Design: UX topics in automated driving, and designing in-vehicle experiences. Part II, Driving Behavior, Urban and Smart Mobility: studies on driving behavior, and urban and smart mobility. *The conference was held virtually due to the COVID-19 pandemic. This book presents problems and solutions of the mathematical theories of thermoelasticity and magnetothermoelasticity. The classical, coupled and generalized theories are solved using the eigenvalue methodology. Different methods of numerical inversion of the Laplace transform are presented and their direct applications are illustrated. The book is very useful to those interested in continuum mechanics. This in-depth study guide provides hours of practice for the chemical engineering portion of the FE exam. Includes more than 160 problems with step-by-step solutions, a complete four-hour practice exam, and more. Braja M. Das' PRINCIPLES OF GEOTECHNICAL ENGINEERING provides civil engineering students and professionals with an overview of soil properties and mechanics, combined with a study of field practices and basic soil engineering procedures. Through four editions, this book has distinguished itself by its exceptionally clear theoretical explanations, realistic worked examples, thorough discussions of field testing methods, and extensive problem sets, making this book a leader in its field. Das's goal in revising this best-seller has been to reorganize and revise existing chapters while incorporating the most up-to-date information found in the current literature. Additionally, Das has added numerous case studies as well as new introductory material on the geological side of geotechnical engineering, including coverage of soil formation. This book is derived from Civil Engineering: License Review and Civil Engineering: Problems & Solutions. Civil engineers who only want to study for the geotechnical portion of the PE exam will find this book to be a comprehensive review. Theoretical Foundation Engineering provides up-to-date, state-of-the-art reviews of the existing literature on lateral earth pressure, sheet pile walls, ultimate bearing capacity of shallow foundations, holding capacity of plate and helical anchors in sand and clay, and slope stability analysis. The discussion of the ultimate bearing capacity of shallow foundations is the most comprehensive presentation on the subject to be found anywhere, and the review of earth anchors is unique to this book. In addition, each chapter includes several topics which have never appeared in any other book. The treatment is primarily theoretical and does not in any way compete with existing foundation design books. This is the only textbook of its kind. Not only will it be welcomed by teachers and first-year graduate students of geotechnical engineering, but it will be a useful reference for graduate students and consultants in the the field, as well as being a valuable addition to any civil engineering library. Designed to give non-engineers an understanding of systems engineering, Systems Engineering Simplified presents a gentle introduction to the subject and its importance in any profession. The book shows you how to look at any system as a whole and use this knowledge to gain a better understanding of where a system might break down, how to troublesho Open Radio Access Network (O-RAN) Systems Architecture and Design gives a jump-start to engineers developing O-RAN hardware and software systems, providing a top-down approach to O-RAN systems design. It gives an introduction into why wireless systems look the way they do today before introducing relevant O-RAN and 3GPP standards. The remainder of the book discusses hardware and software aspects of O-RAN system design, including dimensioning and performance targets. Presents O-RAN and 3GPP standards Provides a top-down approach to O-RAN systems design Includes practical examples of relevant elements of detailed hardware and software design to provide tools for development Gives a few practical examples of where O-RAN designs play in the market and how they map to hardware and software architectures Demystifying Numerical Models: Step-by Step Modeling of Engineering Systems is the perfect guide on the analytic concepts of engineering components and systems. In simplified terms, the book focuses on engineering characteristics and behaviors using numerical methods. Readers will learn how the computational aspects of engineering analysis can be applied to develop various engineering systems to a level that is fit for implementation. Provides numerical examples and graphical representations of complex mathematical models Includes downloadable spreadsheets of the numerical tools discussed that allow the reader to gain a hands-on understanding of how they work Explains the engineering foundations behind the increasingly widespread and complex numerical models Electro-optical and infrared systems are fundamental in the military, medical, commercial, industrial, and private sectors. Systems Engineering and Analysis of Electro-Optical and Infrared Systems integrates solid fundamental systems engineering principles, methods, and techniques with the technical focus of contemporary electro-optical and infrared optics, imaging, and detection methodologies and systems. The book provides a running case study throughout that illustrates concepts and applies topics learned. It explores the benefits of a solid systems engineering-oriented approach focused on electro-optical and infrared systems. This book covers fundamental systems engineering principles as applied to optical systems, demonstrating how modern-day systems engineering methods, tools, and techniques can help you to optimally develop, support, and dispose of complex, optical systems. It introduces contemporary systems development paradigms such as model-based systems engineering, agile development, enterprise architecture methods, systems of systems, family of systems, rapid prototyping, and more. It focuses on the connection between the high-level systems engineering methodologies and detailed optical analytical methods to analyze, and understand optical systems performance capabilities. Organized into three distinct sections, the book covers modern, fundamental, and general systems engineering principles, methods, and techniques needed throughout an optical system’s development lifecycle (SDLC); optical systems building blocks that provide necessary optical systems analysis methods, techniques, and technical fundamentals; and an integrated case study that unites these two areas. It provides enough theory, analytical content, and technical depth that you will be able to analyze optical systems from both a systems and technical perspective. Mobile wireless applications are a good way to increase productivity, improve customer service and streamline business processes. 3G mobile applications, however, bring a unique challenge: ensuring adequate in-building coverage.Â Indoor Radio Planning provides an overview of mobile networks systems and coverage solutions for cellular networks in buildings. The background of GSM, UMTS and HSPA cellular systems technology are presented and form the backdrop of the main discussion as to why indoor coverage is needed and how it is best implemented. Basic passive distributed antenna systems (DAS) through to advanced fiber optic systems are discussed in detail, giving the reader a good understanding of all the available solutions. In addition, there is a section covering multi-operator systems, as this is becoming a more and more utilized approach. Other sections cover aspects such as how to upgrade passive DAS from 2G to 3G, noise analysis, link budgets, traffic calculations and software tools that can be used to provide help with creating in-building designs. These topics are examined at length from the basic considerations to advanced indoor radio planning. One of the first texts dedicated solely to indoor radio planning, it will be of essential reading to engineering and planning personnel working for mobile operators, with the book being written with radio planners in mind throughout. Indoor Radio Planning will also be of interest to companies who service and manufacture equipment for operators such as suppliers of indoor coverage systems and vendors of base stations for mobile coverage. A unique, single-source reference for both the theoretical and practical knowledge behind indoor radio planningÂ Written by a leading practitioner in the field with more than 15 years of experienceÂ Based on real life examples and implemented systems and results Analyzes co-existence of mobile services and inter modulation analysis Outlines the key parameters and metrics for designing DAS for GSM, DCS, UMTS and HSPA This newly updated book offers a comprehensive introduction to the scope and nature of engineering work, taking a rigorous but common sense approach to the solution of engineering problems. The text follows the planning, modelling and design phases of engineering projects through to implementation or construction, explaining the conceptual framework for undertaking projects, and then providing a range of techniques and tools for solutions. It focuses on engineering design and problem solving, but also involves economic, environmental, social and ethical considerations. This third edition expands significantly on the economic evaluation of projects and also includes a new section on intractable problems and systems, involving a discussion of wicked problems and soft systems methodology as well as the approaches to software development. Further developments include an array of additional interest boxes, worked examples, problems and up-to date references. Case studies and real-world examples are used to illustrate the role of the engineer and especially the methods employed in engineering practice. The examples are drawn particularly from the fields of civil and environmental engineering, but the approaches and techniques are more widely applicable to other branches of engineering. The book is aimed at first-year engineering students, but contains material to suit more advanced undergraduates. It also functions as a professional handbook, covering some of the fundamentals of engineering planning and design in detail. This book is the ideal companion to the Chemical Engineering: PE License Review Manual, as it delves into problems without lengthy discussion of concepts. Features: - Over 200 problems with step-by-step solutions - Contains conventional English and SI units. An analysis of different concepts and case studies in engineering disciplines such as chemical, civil, electrical, telecommunications and mechanical engineering, demonstrating how engineering systems and processes can leverage the power of AI to drive and achieve the UN SDGs. “Example problems are well written and lead the reader to the solution.” —P. Guichelaar, Western Michigan University "A typeset solution manual is easier to read than a handwritten one and the format will allow copies to be posted very easily. It will be appreciated by those who post solutions." —David B. Oglesby, University of Missouri-Rolla The rigorous development process used to create Mechanics for Engineers: Statics and Dynamics by Das, Kassimali & Sami insures that it's accessible and accurate. Each draft was scrutinized by a panel of your peers to suggest improvements and flush out any flaws. These carefully selected reviewers offered valuable suggestions on content, approach, accessibility, realism, and homework problems. The author team then incorporated their comments to insure that Mechanics for Engineers: Statics reflected the real needs of teaching professionals. The authors worked out solutions to all of their homework and example problems to check for accuracy and consistency and all of the examples and homework problems were sent out to a third party to solve and cross-check each answer in both books. And to be sure Mechanics for Engineers: Statics was as good as it could be, we tested it in the classroom. It was a resounding success and finally ready for your class. Teaching Supplements Solutions Manual The minute you open up the Solutions Manuals for the Mechanics for Engineers texts you'll realize they're better than traditional solutions manuals. All of the problems have been neatly typeset to make them easier to read. Each problem in the text is solved completely and consistently. This consistent problem-solving approach gives the manual a cohesiveness that you will appreciate. Transparency Masters These overhead masters, available to adopters, reproduce key examples and figures from the text so you can incorporate them into your lectures and classroom discussions. Key FeaturesNumerous step-by-step examples that demonstrate the correspondence between the FBD (FREE BODY DIAGRAM) and the mathematical analysis.“Procedures for Analysis” sections that show students how to set up and solve a problem using FBDs to promote a consistent and methodical problem-solving approach. (See sec. 3.19,4.11 and 10.4 in Statics; sec. 1.4 and 2.3 in Dynamics.)A Vector Approach to Statics, with a brief review of vector operations in chapters 1 and 2.Homework Problems that are graded from simple to complex and are well balanced tests of theory and practical application. (More than 900 in Statics and more than 700 in Dynamics.)A Short Review section and key terms at the end of each chapter to promote understanding of new concepts. The text covers a wide range of topics such as mathematical modeling of crop pest control management, water resources management, impact of anthropogenic activities on atmospheric carbon dioxide concentrations, impact of climate changes on melting of glaciers and polar bear populations, dynamics of slow–fast predator-prey system and spread and control of HIV epidemic. It emphasizes the use of mathematical modeling to investigate the fluid flow problems including the breaking of viscoelastic jet, instability arising in nanofiber, flow in an annulus channel, and thermal instability in nano-fluids in a comprehensive manner. This book will be a readily accessible source of information for the students, researchers and policymakers interested in the application of mathematical and computational modeling techniques to investigate various biological and engineering phenomena. Features Focuses on the current modeling and computational trends to investigate various ecological, epidemiological, and engineering systems. Presents the mathematical modeling of a wide range of ecological and environmental issues including crop pest control management, water resources management, the effect of anthropogenic activities on atmospheric carbon dioxide concentrations, and impact of climate changes on melting of glaciers and polar bear population. Covers a wide range of topics including the breaking of viscoelastic jet, instability arising in nanofiber, flow in an annulus channel, and thermal instability in nano-fluids. Examines evolutionary models i.e., models of time-varying processes. Highlights the recent developments in the analytical methods to investigate the nonlinear dynamical systems. Showcases diversified applications of computational techniques to solve practical biological and engineering problems. The book focuses on the recent research developments in the mathematical modeling and scientific computing of biological and engineering systems. It will serve as an ideal reference text for senior undergraduate, graduate students, and researchers in diverse fields including ecological engineering, environmental engineering, computer engineering, mechanical engineering, mathematics, and fluid dynamics. Written in a concise, easy-to understand manner, INTRODUCTION TO GEOTECHNICAL ENGINEERING, 2e, presents intensive research and observation in the field and lab that have improved the science of foundation design. Now providing both U.S. and SI units, this non-calculus-based book is designed for courses in civil engineering technology programs where soil mechanics and foundation engineering are combined into one course. It is also a useful reference tool for civil engineering practitioners. Hybrid Computational Intelligent Systems – Modeling, Simulation and Optimization unearths the latest advances in evolving hybrid intelligent modeling and simulation of human-centric data-intensive applications optimized for real-time use, thereby enabling researchers to come up with novel breakthroughs in this ever-growing field. Salient features include the fundamentals of modeling and simulation with recourse to knowledge-based simulation, interaction paradigms, and human factors, along with the enhancement of the existing state of art in a high-performance computing setup. In addition, this book presents optimization strategies to evolve robust and failsafe intelligent system modeling and simulation. The volume also highlights novel applications for different engineering problems including signal and data processing, speech, image, sensor data processing, innovative intelligent systems, and swarm intelligent manufacturing systems. Features: A self-contained approach to integrating the principles of hybrid computational ntelligence with system modeling and simulation Well-versed foundation of computational intelligence and its application to real life engineering problems Elucidates essential background, concepts, definitions, and theories thereby putting forward a complete treatment on the subject Effective modeling of hybrid intelligent systems forms the backbone of almost every operative system in real-life Proper simulation of real-time hybrid intelligent systems is a prerequisite for deriving any real-life system solution Optimized system modeling and simulation enable real-time and failsafe operations of the existing hybrid intelligent system solutions Information presented in an accessible way for researchers, engineers, developers, and practitioners from academia and industry working in all major areas and interdisciplinary areas of hybrid computational intelligence and communication systems to evolve human-centered modeling and simulations of real-time data-intensive intelligent systems. This book will give readers a thorough understanding of the fundamentals of power system analysis and their applications. Both the basic and advanced topics have been thoroughly explained and supported through several solved examples. Important Features of the Book: Load Flow and Optimal System Operation have been discussed in detail.Automatic Generation Control (AGC) of Isolated and Interconnected Power Systems have been discussed and explained clearly.AGC in Restructured Environment of Power System has been Introduced.Sag and Tension Analysis have been discussed in detail.Contains over 150 illustrative examples, practice problems and objective-type questions, that will assist the reader.With all these features, this is an indispensable text for graduate and postgraduate electrical engineering students. GATE, AMIE and UPSC engineering services along with practicing engineers would also find this book extremely useful Master the core concepts and applications of foundation analysis and design with Das/Sivakugan’s best-selling PRINCIPLES OF FOUNDATION ENGINEERING, 9th Edition. Written specifically for those studying undergraduate civil engineering, this invaluable resource by renowned authors in the field of geotechnical engineering provides an ideal balance of today's most current research and practical field applications. A wealth of worked-out examples and figures clearly illustrate the work of today's civil engineer, while timely information and insights help readers develop the critical skills needed to properly apply theories and analysis while evaluating soils and foundation design. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Agility has become very important for the industries today as the lifetimes of the products are continuously shrinking. This book provides an excellent opportunity for updating understanding of agile methods from the design, manufacturing and business process perspectives, whether one is an industrial practitioner, academic researcher engineer or business graduate student. This volume is a compilation of various important aspects of agility consisting of systemic considerations in manufacturing, agile software systems, agile business systems, agile operations research, flexible manufacturing systems, advanced manufacturing systems with improved materials and mechanical behavior of products, agile aspects of design, clean and green manufacturing systems, environment, agile defence systems. The book reviews the state-of-the art methods developed and used to remove heavy metals. It presents both industrial waste and mineral based adsorbent as well as bio waste materials making the book absolutely a source of low cost methods available till date. The rapid growth in mobile communications has led to an increasing demand for wideband high data rate communications services. In recent years, the Distributed Antenna System (DAS) has emerged as a promising candidate beyond 3G and 4G mobile communications. Distributed Antenna Systems: Open Architecture for Future Wireless Communications is Very Large Scale Integration (VLSI) Systems refer to the latest development in computer microchips which are created by integrating hundreds of thousands of transistors into one chip. Emerging research in this area has the potential to uncover further applications for VSLI technologies in addition to system advancements. Design and Modeling of Low Power VLSI Systems analyzes various traditional and modern low power techniques for integrated circuit design in addition to the limiting factors of existing techniques and methods for optimization. Through a research-based discussion of the technicalities involved in the VLSI hardware development process cycle, this book is a useful resource for researchers, engineers, and graduate-level students in computer science and engineering. The Geotechnical Engineering Handbook brings together essential information related to the evaluation of engineering properties of soils, design of foundations such as spread footings, mat foundations, piles, and drilled shafts, and fundamental principles of analyzing the stability of slopes and embankments, retaining walls, and other earth-retaining structures. The Handbook also covers soil dynamics and foundation vibration to analyze the behavior of foundations subjected to cyclic vertical, sliding and rocking excitations and topics addressed in some detail include: environmental geotechnology and foundations for railroad beds. Chemical Solution Synthesis for Materials Design and Thin Film Device Applications presents current research on wet chemical techniques for thin-film based devices. Sections cover the quality of thin films, types of common films used in devices, various thermodynamic properties, thin film patterning, device configuration and applications. As a whole, these topics create a roadmap for developing new materials and incorporating the results in device fabrication. This book is suitable for graduate, undergraduate, doctoral students, and researchers looking for quick guidance on material synthesis and device fabrication through wet chemical routes. Provides the different wet chemical routes for materials synthesis, along with the most relevant thin film structured materials for device applications Discusses patterning and solution processing of inorganic thin films, along with solvent-based processing techniques Includes an overview of key processes and methods in thin film synthesis, processing and device fabrication, such as nucleation, lithography and solution processing This is a review book for people planning to take the PE exam in Chemical Engineering. Prepared specifically for the exam used in all 50 states. It features 188 new PE problems with detailed step by step solutions. The book covers all topics on the exam, and includes easy to use tables, charts, and formulas. It is an ideal desk Companion to DAS's Chemical Engineer License Review. It includes sixteen chapters and a short PE sample exam as well as complete references and an index. Chapters include the following topical areas: material and energy balances; fluid dynamics; heat transfer; evaporation; distillation; absorption; leaching; liq-liq extraction; psychrometry and humidification, drying, filtration, thermodynamics, chemical kinetics, process control, mass transfer, and plant safety. The ideal study guide, this book brings all elements of professional problem solving together in one BIG BOOK. Ideal desk reference. Answers hundreds of the most frequently asked questions. The first truly practical, no-nonsense problems and solution book for the difficult PE exam. Full step-by-step solutions are included. FUNDAMENTALS OF GEOTECHNICAL ENGINEERING, 5E offers a powerful combination of essential components from Braja Das' market-leading books: PRINCIPLES OF GEOTECHNICAL ENGINEERING and PRINCIPLES OF FOUNDATION ENGINEERING in one cohesive book. This unique, concise geotechnical engineering book focuses on the fundamental concepts of both soil mechanics and foundation engineering without the distraction of excessive

details or cumbersome alternatives. A wealth of worked-out, step-by-step examples and valuable figures help readers master key concepts and strengthen essential problem solving skills. Prestigious authors Das and Sivakugan maintain the careful balance of today's most current research and practical field applications in a proven approach that has made Das' books leaders in the field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This is a review book for people planning to take the PE exam in Chemical Engineering.Prepared specifically for the exam used in all 50 states.It features 188 new PE problems with detailed step by step solutions. The book covers all topics on the exam, and includes easy to use tables, charts, and formulas.It is an ideal desk companion to DAS's Chemical Engineer License Review.It includes sixteen chapters and a short PE sample exam as well as complete references and an index.Chapters include the following topical areas: * Material and energy balances * Fluid dynamics * Heat transfer * Evaporation * Distillation * Absorption * Leaching * Liq-liq extraction * Psychrometry and humidification * Drying * Filtration * Thermodynamics * Chemical kinetics * Process control * Mass transfer * Plant safety The ideal study guide, this book brings all elements of professional problem solving together in one BIG BOOK.It is also an ideal desk reference, and it answers hundreds of the most frequently asked questions.It is the first truly practical, no-nonsense problem and solution book for the difficult PE exam.Full step-by-step solutions are are additionally included.