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In *Foundation Design: Theory and Practice*, Professor N. S. V. Kameswara Rao covers the key aspects of the subject, including principles of testing, interpretation, analysis, soil-structure interaction modeling, construction guidelines, and applications to rational design. Rao presents a wide array of numerical methods used in analyses so that readers can employ and adapt them on their own. Throughout the book the emphasis is on practical application, training readers in actual design procedures using the latest codes and standards in use throughout the world. Presents updated design procedures in light of revised codes and standards, covering: American Concrete Institute (ACI) codes Eurocode 7 Other British Standard-based codes including Indian codes Provides background materials for easy understanding of the topics, such as: Code provisions for reinforced concrete Pile design and construction Machine foundations and construction practices Tests for obtaining the design parameters Features subjects not covered in other foundation design texts: Soil-structure interaction approaches using analytical, numerical, and finite element methods Analysis and design of circular and annular foundations Analysis and design of piles and groups subjected to general loads and movements Contains worked out examples to illustrate the analysis and design Provides several problems for practice at the end of each chapter Lecture materials for instructors available on the book's companion website *Foundation Design* is designed for graduate students in civil engineering and geotechnical engineering. The book is also ideal for advanced undergraduate students, contractors, builders, developers, heavy machine manufacturers, and power plant engineers. Students in mechanical engineering will find the chapter on machine foundations helpful for structural engineering applications. Companion website for instructor resources: www.wiley.com/go/rao This book is an introductory text on structural analysis and structural design. While the emphasis is on fundamental concepts, the ideas are reinforced through a combination of limited versatile classical techniques and numerical methods. Structural analysis and structural design including optimal design are strongly linked

through design examples. Little known to many, R works just as well with JavaScript—this book delves into the various ways both languages can work together. The ultimate aim of this work is to put the reader at ease with inviting JavaScript in their data science workflow. In that respect the book is not teaching one JavaScript but rather we show how little JavaScript can greatly support and enhance R code. Therefore, the focus is on integrating external JavaScript libraries and no prior knowledge of JavaScript is required. Key Features: ● Easy to pick up. ● An entry way to learning JavaScript for R. ● Covers topics not covered anywhere else. ● Easy to follow along. *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 include 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 readers' 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 readers 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 This book enables the student to master the methods of analysis of isostatic and hyperstatic structures. To show the performance of the methods of analysis of the hyperstatic structures, some beams, gantries and reticular structures are selected and subjected to a comparative study by the different methods of analysis of the hyperstatic structures. This procedure provides an insight into the methods of analysis of the structures. Cardiovascular, respiratory, and related conditions cause more than 40 percent of all deaths globally, and their substantial burden is rising, particularly in low- and middle-income countries (LMICs). Their burden extends well beyond health effects to include significant economic and societal consequences. Most of these conditions are related, share risk factors, and have common control measures at the clinical, population, and policy levels. Lives can be extended and improved when these diseases are prevented, detected, and managed. This volume summarizes current knowledge and presents evidence-based interventions that are effective, cost-effective, and scalable in LMICs. A fully updated paperback edition that includes coverage of the key developments of the past two years, including the political controversies that swirled around Facebook with increasing intensity in the Trump era. If you wanted to build a machine that would distribute propaganda to millions of people, distract them from important issues, energize hatred and bigotry, erode social trust, undermine respectable journalism, foster doubts about science, and engage in massive surveillance all at once, you would make something a lot like Facebook. Of course, none of that was part of the plan. In this fully updated paperback edition of *Antisocial Media*, including a new chapter on the increasing recognition of- and reaction against--Facebook's power in the last couple of years, Siva Vaidhyathan explains how Facebook devolved from an innocent social site hacked together by Harvard students into a force that, while it may make personal life just a little more pleasurable, makes democracy a lot more challenging. It's an account of the hubris of good intentions, a missionary spirit, and an ideology that sees computer code as the universal solvent for all human problems. And it's an indictment of how "social media" has fostered the deterioration of democratic culture around the world, from facilitating Russian meddling in support of Trump's election to the exploitation of the platform by murderous authoritarians in Burma and the

Philippines. Both authoritative and trenchant, *Antisocial Media* shows how Facebook's mission went so wrong. Infectious diseases are the leading cause of death globally, particularly among children and young adults. The spread of new pathogens and the threat of antimicrobial resistance pose particular challenges in combating these diseases. *Major Infectious Diseases* identifies feasible, cost-effective packages of interventions and strategies across delivery platforms to prevent and treat HIV/AIDS, other sexually transmitted infections, tuberculosis, malaria, adult febrile illness, viral hepatitis, and neglected tropical diseases. The volume emphasizes the need to effectively address emerging antimicrobial resistance, strengthen health systems, and increase access to care. The attainable goals are to reduce incidence, develop innovative approaches, and optimize existing tools in resource-constrained settings.

Advanced Structural Analysis is a textbook that essentially covers matrix analysis of structures, presented in a fresh and insightful way. This book is an extension of the author's basic book on *Structural Analysis*. The initial three chapters review the basic concepts in structural analysis and matrix algebra, and show how the latter provides an excellent mathematical framework for the former. The next three chapters discuss in detail and demonstrate through many examples how matrix methods can be applied to linear static analysis of skeletal structures (plane and space trusses; beams and grids; plane and space frames) by the stiffness method. Also, it is shown how simple structures can be conveniently solved using a reduced stiffness formulation, involving far less computational effort. The flexibility method is also discussed. Finally, in the seventh chapter, analysis of elastic instability and second-order response is discussed in detail. The main objective is to enable the student to have a good grasp of all the fundamental issues in these advanced topics in *Structural Analysis*, besides enjoying the learning process, and developing analytical and intuitive skills. With these strong fundamentals, the student will be well prepared to explore and understand further topics like *Finite Elements Analysis*. I feel elevated in presenting the New edition of this standard treatise. The favourable reception, which the previous edition and reprints of this book have enjoyed, is a matter of great satisfaction for me. I wish to express my sincere thanks to numerous professors and students for their valuable suggestions and recommending the patronise this standard treatise in the future also. 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 researchers and graduate and post graduate students with an interest in perfecting structural analysis. Until now, information on the dynamic loading of structures has been widely scattered. No other book has examined the different types of loading in a comprehensive and systematic manner, and looked at their significance in the design process. The book begins with a survey of the probabilistic background to all forms of loads, which is particularly important to dynamic loads, and then looks at the main types in turn: wind, earthquake, wave, blast and impact loading. The relevant code provisions (Eurocode and UBC American) are detailed and a number of examples are used to illustrate the principles. A final section covers the analysis for dynamic loading, drawing out the concepts underlying the treatment of all dynamic loads, and the corresponding modelling techniques. Throughout there is a focus on the modelling of structures, rather than on classical structural dynamics. Explains the basics of indeterminate structural analysis. It been designed to cater to the needs of the undergraduate students and design engineers. The classical methods - slope deflection, moment distribution and Kani's method - are explained at the outset to form the basis of analysis. THE SUNDAY

TIMES BESTSELLER 'Outrageous, audacious, jaw-dropping' SUNDAY TIMES 'An essential read' DAILY MAIL 'Utterly captivating' DAILY TELEGRAPH 'Hugely entertaining' GUARDIAN The fascinating life story of professional cricketer Kevin Pietersen, MBE, from his childhood in South Africa to his experiences as one of the leading lights in the world of international cricket. Kevin was dropped from the England squad in February 2014, seemingly calling time on an international career that began nearly ten years earlier. The decision puzzled many observers - although the England team had failed miserably in the Ashes tour of 2013-14, Kevin was the tourists' leading run scorer across the series, and he remains the country's highest run scorer of all time across all formats of the game. Kevin reveals all in his autobiography, telling the stories behind the many other highs and lows of his incredible career. Giving readers the full story of his life, from his childhood in South Africa to his experiences as one of the leading lights in the world of international cricket, *KP* is an autobiography that entertains and fascinates readers in equal measure.

"DSEK: What You Need to Know About Endothelial Keratoplasty provides a comprehensive background of EK, where it is today, and where it is headed in the future. Francis W. Price, MD, who was the first to complete DSEK in the United States, along with Marianne Price, PhD, have designed this text to offer a special emphasis on how to perform surgeries along with preventing and managing complications. In addition, a diverse group of contributing authors provides a wide array of insights and tips for better patient outcomes."--BOOK JACKET. This Book Presents A Comprehensive Treatment Of The Various Dimensions Of Water Resources Engineering. The Fundamental Principles And Design Concepts Relating To Various Structures Are Clearly Highlighted. The Practical Application Of Design Concepts Is Emphasised Throughout The Book. The Text Is Profusely Illustrated By A Large Number Of Detailed Drawings And photographs. Several Worked Out Examples Are Also Included For A Better Understanding Of The Concepts. Practice Problems And Questions From Various Examinations Are Given For Exercise And Self-Test. This Revised Edition Includes * A New Chapter On River Diversion Head Works Statistical Analysis Of Rainfall And Run-Off Data * Infiltration Indices And Storage Capacity Of Reservoirs * Design Of Sarda Type Canal Drop * Additional Photographs, Diagrams And Examples. The Book Would Serve As An Ideal Text For B.E. Civil Engineering Students And Amie Candidates. Practising Engineers And Candidates Appearing In Various Competitive Examinations Including Gate, Upsc And Ies Would Also Find This Book Very Useful. Following on from the International Conference on Structural Engineering, Mechanics and Computation, held in Cape Town in April 2001, this book contains the Proceedings, in two volumes. There are over 170 papers written by Authors from around 40 countries worldwide. The contributions include 6 Keynote Papers and 12 Special Invited Papers. In line with the aims of the SEMC 2001 International Conference, and as may be seen from the List of Contents, the papers cover a wide range of topics under a variety of themes. There is a healthy balance between papers of a theoretical nature, concerned with various aspects of structural mechanics and computational issues, and those of a more practical nature, addressing issues of design, safety and construction. As the contributions in these Proceedings show, new and more efficient methods of structural analysis and numerical computation are being explored all the time, while exciting structural materials such as glass have recently come onto the scene. Research interest in the repair and rehabilitation of existing infrastructure continues to grow, particularly in Europe and North America, while the challenges to protect human life and property against the effects of fire, earthquakes and other hazards are being addressed through the development of more appropriate design methods for buildings, bridges and other engineering structures. This book compiles recent advances of evolutionary algorithms in dynamic and uncertain environments within a unified framework. The book is motivated by the fact that some degree of uncertainty is inevitable in characterizing any realistic engineering systems. Discussion includes representative methods for addressing major sources of uncertainties in evolutionary computation, including handle of noisy fitness functions, use of approximate fitness functions, search for robust solutions, and tracking moving optimums. This book focuses on the role of the non-corporate sector of the Indian economy. It consists of Proprietorship or Partnership (P&P) firms, self-employed persons and other similar categories, has the largest share in our National Income, manufacturing acti Now in its third edition, this classic book is widely considered the leading text on Bayesian methods, lauded for its accessible, practical approach to analyzing data and solving research problems. *Bayesian Data Analysis, Third Edition* continues to take an applied approach to analysis using up-to-date Bayesian methods. The authors—all leaders in the

statistics community—introduce basic concepts from a data-analytic perspective before presenting advanced methods. Throughout the text, numerous worked examples drawn from real applications and research emphasize the use of Bayesian inference in practice. New to the Third Edition Four new chapters on nonparametric modeling Coverage of weakly informative priors and boundary-avoiding priors Updated discussion of cross-validation and predictive information criteria Improved convergence monitoring and effective sample size calculations for iterative simulation Presentations of Hamiltonian Monte Carlo, variational Bayes, and expectation propagation New and revised software code The book can be used in three different ways. For undergraduate students, it introduces Bayesian inference starting from first principles. For graduate students, the text presents effective current approaches to Bayesian modeling and computation in statistics and related fields. For researchers, it provides an assortment of Bayesian methods in applied statistics. Additional materials, including data sets used in the examples, solutions to selected exercises, and software instructions, are available on the book's web page. A better understanding of the microstructure of metals and alloys has led to great advances in the performance and useful applications of these, the oldest of mankind's engineered materials. This book in the Materials Characterizations series focuses on the particular molecular and atomistic properties of metals insofar as how they affect the different techniques for measuring and analyzing internal structure, surface structure, and chemical/physical properties. It provides a vital connection between commonly used characterization techniques like Scanning Electron Microscopy and how such can be used in the various ways that metals are processed, machined, and used. Review of relevant mechanical and chemical properties of metals and how they affect characterization techniques Characterization techniques used for melting and casting, machining, and metallic thin films processes Concise summaries of major characterization technologies for metals and alloys, including Auger Electron Spectroscopy, Energy-Dispersive X-Ray Spectroscopy, Neutron Activation Analysis, Scanning Electron Microscopy, and Transmission Electron Spectroscopy Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications comprises 411 papers that were presented at SEMC 2019, the Seventh International Conference on Structural Engineering, Mechanics and Computation, held in Cape Town, South Africa, from 2 to 4 September 2019. The subject matter reflects the broad scope of SEMC conferences, and covers a wide variety of engineering materials (both traditional and innovative) and many types of structures. The many topics featured in these Proceedings can be classified into six broad categories that deal with: (i) the mechanics of materials and fluids (elasticity, plasticity, flow through porous media, fluid dynamics, fracture, fatigue, damage, delamination, corrosion, bond, creep, shrinkage, etc); (ii) the mechanics of structures and systems (structural dynamics, vibration, seismic response, soil-structure interaction, fluid-structure interaction, response to blast and impact, response to fire, structural stability, buckling, collapse behaviour); (iii) the numerical modelling and experimental testing of materials and structures (numerical methods, simulation techniques, multi-scale modelling, computational modelling, laboratory testing, field testing, experimental measurements); (iv) innovations and special structures (nanostructures, adaptive structures, smart structures, composite structures, bio-inspired structures, shell structures, membranes, space structures, lightweight structures, long-span structures, tall buildings, wind turbines, etc); (v) design in traditional engineering materials (steel, concrete, steel-concrete composite, aluminium, masonry, timber, glass); (vi) the process of structural engineering (conceptualisation, planning, analysis, design, optimization, construction, assembly, manufacture, testing, maintenance, monitoring, assessment, repair, strengthening, retrofitting, decommissioning). The SEMC 2019 Proceedings will be of interest to civil, structural, mechanical, marine and aerospace engineers. Researchers, developers, practitioners and academics in these disciplines will find them useful. Two versions of the papers are available. Short versions, intended to be concise but self-contained summaries of the full papers, are in this printed book. The full versions of the papers are in the e-book. Shwocasing recent developments in inorganic biomaterials in an area of societal interest and importance, this text covers such areas as functional surfaces, energy storage and metamaterials, with an emphasis on how inorganic biomaterials are being used for cutting-edge applications. STRUCTURAL ANALYSIS (Second Edition) is a basic under-graduate text on Structural Analysis, presented with fresh insight and clarity.

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