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Comprehensive yet compact, this is a user-friendly time-saving reference packed with key engineering formulas for a wide variety of applications. Featuring introductory material on use and application of each formula, along with appendices covering metric conversion information, and selected mathematical formulas and symbols, this is a unique resource no civil engineer should be without.

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Continuing the tradition of the best-selling Handbook of Structural Engineering, this second edition is a comprehensive reference to the broad spectrum of structural engineering, encapsulating the theoretical, practical, and computational aspects of the field. The authors address a myriad of topics, covering both traditional and innovative approaches to analysis, design, and rehabilitation. The second edition has been expanded and reorganized to be more informative and cohesive. It also follows the developments that have emerged in the field since the previous edition, such as advanced analysis for structural design, performance-based design of earthquake-resistant structures, lifecycle evaluation and condition assessment of existing structures, the use of high-performance materials for construction, and design for safety. Additionally, the book includes numerous tables, charts, and equations, as well as extensive references, reading lists, and websites for further study or more in-depth information. Emphasizing practical applications and easy implementation, this text reflects the increasingly global nature of engineering, compiling the efforts of an international panel of experts from industry and academia. This is a necessity for anyone studying or practicing in the field of structural engineering. New to this edition Fundamental theories of structural dynamics Advanced analysis Wind and earthquake-resistant design Design of prestressed concrete, masonry, timber, and glass structures Properties, behavior, and use of high-performance steel, concrete, and fiber-reinforced polymers Semirigid frame structures Structural bracing Structural design for fire safety

This updated textbook provides a balanced, seamless treatment of both classic, analytic methods and contemporary, computer-based techniques for conceptualizing and designing a structure. New to the second edition are treatments of geometrically nonlinear analysis and limit analysis based on nonlinear inelastic analysis. Illustrative examples of nonlinear behavior generated with advanced software are included. The book fosters an intuitive understanding of structural behavior based on problem solving experience for students of civil engineering and architecture who have been exposed to the basic concepts of engineering mechanics and mechanics of materials. Distinct from other undergraduate textbooks, the authors of Fundamentals of Structural Engineering, 2/e embrace the notion that engineers reason about behavior using simple models and intuition they acquire through problem solving. The perspective adopted in this text therefore develops this type of intuition by presenting extensive, realistic problems and case studies together with computer simulation, allowing for rapid exploration of how a structure responds to changes in geometry and physical parameters. The integrated approach employed in Fundamentals of Structural Engineering, 2/e make it an ideal instructional resource for students and a comprehensive, authoritative reference for practitioners of civil and structural engineering.

¶It is better to be roughly right than precisely wrong.¶ John Maynard Keynes This book contains approximate structural calculation methods for engineers and architects. For easy reference and assimilation it is broken down into categories from simple beams to more complex examples. With numerous figures and photographs it closely relates theory to real structures. Engineering Structures is mostly formally taught in a lecture room with little time devoted to real examples. On graduation an engineer has to cope with turning this eagerly acquired knowledge into reality. To make sense of this a designer needs to be able to test their ideas with a simple set of tools which involve little more than pen, paper and calculator. Architects often wonder if there is an easier way to evaluate alternative structural solutions in their designs. For more information see www.struartapp.com

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