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This overview of the analysis and design of buildings runs from basic principles and elementary structural analysis to the selection of structural systems and materials, and on to foundations and retaining structures. It presents a variety of approaches and methodologies while featuring realistic design examples. As a comprehensive guide and desk reference for practicing structural and civil engineers, and for engineering students, it draws on the author's teaching experience at The City College of New York and his work as a design engineer and architect. It is especially useful for those taking the National Council of Examiners for Engineering and Surveying SE exam.

Traces the development of architectural structure, ranging from the nomad's simple tent to the Sears Tower

A thorough introduction to the principles of architectural design furnishes a series of lessons that addresses such issues as modern landscape architecture, the development of "green" design, urban architecture, the engineering challenges confronting the builders of skyscrapers, and more, in an updated edition of the award-winning study. Original.

This book is aimed at developing the elementary analysis skills, familiarity and intuitive feel for composite construction that is required by undergraduate and graduate students, and by structural engineers. It does not require a prior knowledge of advanced analysis and design techniques, but builds on simple concepts such as statics and the mechanics of materials. A topic is first introduced by a brief description, with numerous carefully-chosen examples forming an integral part of the main text. Working through the examples allows the reader to gain a full understanding of the subject, as a technique is illustrated by its application to the design of new structures, or the important area of assessing and upgrading existing structures. The techniques described for the analysis of standard structures form a basis for understanding the way composite structures work, and these techniques are applied to many non-standard forms of composite construction that are rarely covered in national standards, if at all. The book is an essential purchase for all undergraduate and postgraduate students of structural and civil engineering, as well as all practitioners.

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.

This book contains a unique collection of various perspectives on the relationship between structures and the forms and spaces of architecture. As such it provides students and professionals alike with an essential sourcebook that can be mined for visual inspiration as well as for textually rich and authoritative insight into the links between structure, architecture, and cultural context. The chapters address fundamental structural elements and systems: columns, walls, beams, trusses, frames, tensile structures, arches, domes and shells. Each chapter is subdivided into two parts: • The essays - introduce the chapters with the reprinting of a curated set of essays and excerpts by various authors that uniquely address how particular structural elements or systems relate in essential fashion to architectural design concepts. • The model studies - physical models of the overall structural systems of several notable contemporary buildings from Europe, North and South America, Africa and Asia are illustrated with large photographs, detail close-ups, and views of their external forms and internal spaces that establish the exceptional qualities of these projects in connecting structural form to architectural design objectives. Mosaic layouts complete the chapters with a collection of photographs of yet more models whose particular details and unique features serve to extend the visual repertoire of the structural type being considered. The combination, juxtaposition and mutual positive reinforcement of these two collections, one largely textual and the other image based, provides the reader with unique and multifaceted insights into how structural forms and systems can be related to architectural design intentions. Conveyed by a strong and deliberate graphical design format, this assembly of materials gets to the very essence of structures within the context of architecture, and will inspire students and practitioners alike to make strategic design decisions for their own projects.

'Structure and Architecture' is an essential textbook for students and practitioners of architecture and structural engineering. MacDonald explains the basic principles of structure and describes the ranges of structure types in current use. Furthermore, the book links these topics directly with the activity of architectural design and criticism. An update of the first edition, 'Structure and Architecture 2ed' includes a revised opening chapter, and a new section that discusses prominent buildings constructed since the last edition was published in 1994. Angus MacDonald deals with structures holistically, relating detailed topics back to the whole structure and building. He aims to answer the questions: What are architectural structures? How does one define the difference between the structure of a building and all of the other components and elements of which it consists? What are the requirements of structures? What is involved in their design? An understanding of the concepts involved in answering these questions and an appreciation of how the structure of a building functions enhances the ability of an individual to appreciate its architectural quality. This book is unique in that it discusses the structural component of architectural design in the context of visual and stylistic issues.

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