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The bestselling structural design reference, fully updated and revised Simplified Engineering for Architects and Builders is the go-to reference on structural design, giving architects and designers a concise introduction to the structures commonly used for typical buildings. The clear, accessible presentation is designed to give you the essential engineering information you need without getting bogged down in excess math, making this book an ideal reference for busy design professionals. This new 12th edition has been completely revised to reflect the latest standards and practices. The instructor site includes a complete suite of teaching resources, including an instructor's manual. Structural design is an essential component of the architect's repertoire, and engineering principles are at the foundation of every sound structure. You need to know the physics, but you don't necessarily need to know all of the math. This book gives you exactly what you need without losing you in a tangle of equations, so you can quickly grasp and apply the material. Understand fundamental concepts like forces, loading, and reactions Learn how to design for wood, steel, or concrete construction Study structural design standards and develop sound structural systems Determine the best possible solutions to difficult design challenges The industry-leading reference for over 80 years, Simplified Engineering for Architects and Builders is the definitive guide to practical structural design.

For more than 60 years, a must-have Reference for the Design and Construction Trades This Ninth Edition of one of the all-time bestselling books on architecture provides a clear, accessible presentation of the engineering information that is essential for architects and builders. It offers a concise understanding of the structural design process, including information on structural analysis, materials, and systems. * Offers a highly readable and understandable approach to investigating and designing commonly used structures for ordinary buildings * Provides essential formulas for the solution of structural problems * Includes more than 200 simple, descriptive illustrations * Features updated code and material information * Covers wood, steel concrete, and masonry structures An unparalleled resource for students and young professional in architecture, construction, and civil engineering, Simplified Engineering for Architects and Builders, Ninth Edition boils structural engineering down to its essential and provides the simple design solutions that are used for the vast majority of buildings.

A user-friendly reference on the design and technology of building structures. The authors provide a holistic approach to structural design by covering all of the primary structural materials (steel, wood, reinforced concrete, and masonry) and combining architectural form, spatial organization, and load configurations.

"Major revision of this classic reference is reorganized and updated to reflect the latest practices in the design of structures. Since 1938, Simplified Engineering for Architect and Builders has endured as the reference of choice for designers and constructors who need to know the practical procedures for the design of commonly used structures for buildings. Covering both the LRFD and ASD methods for structural design, Simplified Engineering is the go-to book for those working on the design of steel, wood, concrete and masonry building structures"--

Simplified Structural Analysis and Design for Architects covers the basics of structural analysis and design in clear, practical terms. The book clarifies complex engineering topics through accessible, detailed examples and sample problems. Early chapters discuss the principles of statics, strength of materials, and structural analysis which represent the underlying basic material of structures and structural technology. The second part of the text focuses on steel structures, wood structures, and concrete structures, and outlines the design methods of some structural elements in a simplified manner and using some typical design examples. This edition includes two new chapters on the analysis of indeterminate structures and the simplified analysis of concrete indeterminate structures, as well as clearer figures and tables printed throughout. The final chapters of the book discuss the analysis of indeterminate structures. Concise and to the point, Simplified Structural Analysis and Design for Architects is particularly suitable for undergraduate and graduate architecture courses and courses in structural technology. The book is also a useful tool for practicing architects wishing to review the topic, and architecture graduates who are preparing for the licensing examination. Rima Taher earned her doctorate in civil engineering and building technology from École Nationale des Ponts et Chaussées in Paris. She is a senior university lecturer in the College of Architecture and Design and a part-time instructor in the Department of Civil and Environmental Engineering at the New Jersey Institute of Technology. She is a practicing civil/structural engineer through her consulting firm in New Jersey, Taher Engineering, LLC. Dr. Taher is an expert in the field of design and construction of low-rise buildings for high winds and hurricanes. She has given presentations on this subject to the Chilean Ministry of Education and the Inter-American Development Bank and at the annual conference of the Construction Specifications Institute in Canada in 2011. Dr. Taher serves as president of the Structural Engineering Institute Chapter at the North Jersey branch of the American Society of Civil Engineers.

This book provides an understanding of the fundamental theories and practice behind the creation of architectural structures. It aids the development of an intuitive understanding of structural engineering, bringing together technical and design issues. The book is divided into four sections: 'Structures in nature' looks at structural principles found in natural objects. 'Theory' covers general structural theory as well as

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explaining the main forces in engineering. 'Structural prototypes' includes examples of modelmaking and load testing that can be carried out by students. The fourth section, 'Case studies', presents a diverse range of examples from around the world – actual buildings that apply the theories and testing described in the previous sections. This accessible, informative text is illustrated with specially drawn diagrams, models, CAD visualizations, construction details and photographs of completed buildings. This book will give students and newly qualified architects a firm grasp of this essential topic.

The comprehensive reference on the basics of structural analysis and design, now updated with the latest considerations of building technology Structural design is an essential element of the building process, yet one of the most difficult to learn. While structural engineers do the detailed consulting work for a building project, architects need to know enough structural theory and analysis to design a building. Most texts on structures for architects focus narrowly on the mathematical analysis of isolated structural components, yet Building Structures looks at the general concepts with selected computations to understand the role of the structure as a building subsystem—without the complicated mathematics. New to this edition is a complete discussion of the LRFD method of design, supplemented by the ASD method, in addition to: The fundamentals of structural analysis and design for architects A glossary, exercise problems, and a companion website and instructor's manual Material ideally suited for preparing for the ARE exam Profusely illustrated throughout with drawings and photographs, and including new case studies, Building Structures, Third Edition is perfect for nonengineers to understand and visualize structural design.

Structure As Architecture provides readers with an accessible insight into the relationship between structure and architecture, focusing on the design principles that relate to both fields. Over one hundred case studies of contemporary buildings from countries across the globe including the UK, the US, France, Germany, Spain, Hong Kong and Australia are interspersed throughout the book. The author has visited and photographed each of these examples and analyzed them to show how structure plays a significant architectural role, as well as bearing loads. This is a highly illustrated sourcebook, providing a new insight into the role of structure, and discussing the point where the technical and the aesthetic meet to create the discipline of 'architecture'.

Takes readers on a journey through the history of architectural and structural disasters, from the Parthenon to the Tower of Pisa to the Tacoma Narrows Bridge

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