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JAMES AMBROSE is Editor of the Parker/Ambrose Series of Simplified Design Guides. He practiced as an architect in California and Illinois, and as a structural engineer in Illinois. He was a professor of architecture at the University of Southern California.

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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.

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ambrose simplified design of building foundations 2nd edition simplified engineering for architects and builders 9th edition 3751 p fm 11 13 01 1214 pm page ii simplified engineering for architects and builders that book picks up the fundamental materials presented simplified engineering for architects

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.

Considered a standard in the field, this edition has been updated and expanded. Presents a minimum of fundamental structural mechanics and a digest of the basic issues regarding common forms of construction in major structural materials of wood, steel, concrete and masonry. Contains a new section on the topic of strength design, the latest information on model building codes and industry standards, a chapter on the basic nature and some detail of trusses. Includes a wealth of illustrative examples.

Contains all the information needed to produce complete and accurate site plans. It is the only work entirely devoted to the solution of landscape and drainage problems that recur so frequently in the preparation of site plans.

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.

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.

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.

Solid, Accessible Coverage of the Basics of Wood Structure Design This invaluable guide provides a complete and practical introduction to the design of wood structures for buildings. Written to be easily understood by readers with limited experience in engineering mechanics, structural analysis, or advanced mathematics, the book includes: A comprehensive review of structural properties, including density, elasticity, defects, lumber gradings, and use classification A straightforward discussion of design methods and criteria—stress, strength, design values, loading, bracing, and more Extensive material on wood sections, from beam functions, behavior, and design to wood decks and wood columns Information based on current industry standards and construction practices Many building design examples, plus helpful study aids and references Equally suited to classroom use or independent study, Simplified Design of Wood Structures, Fifth Edition is a superb resource for aspiring and practicing architects and engineers.

The seventh edition of Simplified Design of Steel Structures is an excellent reference for architects and engineers who need information about the common uses of steel for the structures of buildings. The clear and concise format benefits readers who have limited backgrounds in mathematics and engineering. This new edition has been updated to reflect changes in standards, industry technology, and construction practices, including new research in the field, examples of general building structural systems, and the use of computers in structural design. Specifically, Load and Resistance Factor Design (LRFD) and Allowable Stress Design (ASD) are now covered.

A complete, accessible introduction to structural masonry fundamentals. This practical volume provides a thorough grounding in the design of masonry structures for buildings --with clear and easy-to-grasp coverage of basic materials, construction systems, building

codes, industry standards, and simple computations for structural elements of commonly used forms of masonry. Well-written and carefully organized, the book:

- * Includes all principal types of masonry materials: brick, stone, fired clay, concrete block, glass block, and more
- * Contains information on unreinforced, reinforced, and veneered construction
- * Examines key design criteria: dead loads, live loads, lateral loads, structural planning, building code requirements, and performance measurement
- * Features helpful study aids -- including exercises and solutions, glossary of terms, bibliography, and detailed appendices.

Requiring only minimal prior experience in engineering analysis or design, *Simplified Design of Masonry Structures* is ideal for self-study or classroom use. It is an essential reference for architecture and engineering students and professionals.

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