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## James

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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 concise, highly accessible source for site engineering basics. This updated edition of Parker's classic text introduces the basic issues, tasks, and problems of site engineering to students and professionals who need to understand the significance of surveying data. It presents the fundamentals of site engineering -- surveying and mapping, drainage, slope stabilization, and basic structures -- and explains in detail the solutions to a wide variety of problems, including: \* Interpretation of deed descriptions \* Dimensioning buildings and sites when angles are other than right angles \* Computing areas for irregular plots \* Dimensioning and laying out circular curves for driveways and buildings \* And much more. Featuring a simplified, accessible style with numerous examples of problems and their solutions, as well as references and practical aids that facilitate home study, this is the ideal surveying and site-planning primer for students in architecture, landscape architecture, and civil and structural engineering. It is also an excellent handbook for working architects, building contractors, and professionals in related fields.

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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"--

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.

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

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.