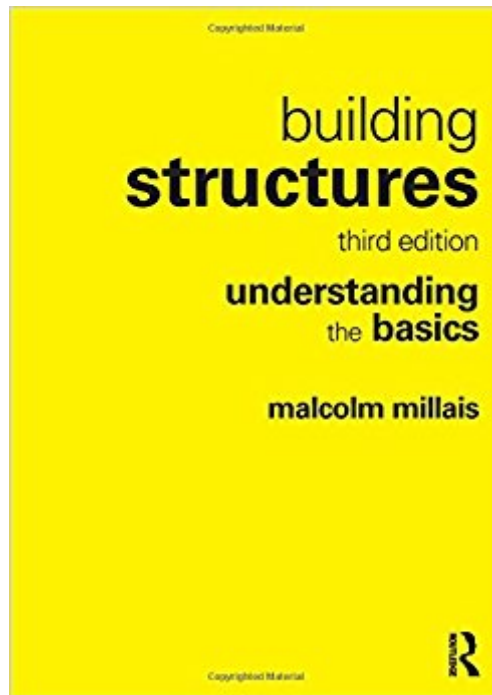




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Building Structures: Understanding The Basics



Synopsis

This is a one-stop book for knowing everything important about building structures. Self-contained and with no prerequisites needed, it is suitable for both general readers and building professionals. follow the history of structural understanding; grasp the concepts of structural behaviour via step-by-step explanations; apply these concepts to a simple building; see how these concepts apply to real buildings, from Durham Cathedral to the Bank of China; use these concepts to define the design process; see how these concepts inform design choices; understand how engineering and architecture have diverged, and what effect this had; learn to do simple but relevant numerical calculations for actual structures; understand when dynamics are important; follow the development of progressive collapse prevention; enter the world of modern structural theory; see how computers can be used for structural analysis; learn how to organise and design a successful project. With more than 500 pages and over 1100 user-friendly diagrams, this book is a must for anyone who would like to understand the fascinating world of structures.

Book Information

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Customer Reviews

Reviews of the 2nd edition "I give this book my highest commendation"™ The Structural Engineer "How I wish that when presented with the theory of structures Millais'™ book had been available"™ Professor Derek Sugden in the Architect's™ Journal

Both natural and man-made structures abound in the world: trees, tables, cranes and bridges

amongst others. All these structures carry loads, but how they do so is not obvious from casual observation. This book explains how structures behave. Key concepts such as load paths, stress distribution and bending moments are explained by the use of numerous diagrams and without recourse to mathematics. There are no technical prerequisites for reading this book, making it highly suitable for both students who require an understanding of structural behaviour and for practitioners in the building industry who need to be clear about the role of structures in the design and construction of buildings.

Providing clear, concise and very good fundamental structural knowledge

Building Structures, third edition: Understanding the basics, by Malcolm Millais The scope of the third edition of the book is huge: not only does it cover the fundamentals of structural action with reference to real projects, but engages in fascinating forensic engineering, particularly in the new chapter on dynamic that covers progressive collapse. Illustrated with beautiful, hand-drawn diagrams, the book often highlights conflicts between designs led by architectural vision and sound engineering principles. The author reflects on the fact that honours for outstanding designs tend to go to architects, with engineering achievements receiving much less publicity. It is pleasing to see interesting historical facts and references to previous noted work by famous architects, scientists and engineers- something that is missing in most engineering textbooks. Building Structures, third edition is thought provoking and highly educational; it should be an essential reading for students and practitioners of the built environment in any country.

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