

Millais

Building Structures

understanding the basics

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.

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