



# How Structures Work: Design and Behaviour from Bridges to Buildings

*David Yeomans*

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Structural engineering is central to the design of a building. How the building behaves when subjected to various forces – the weight of the materials used to build it, the weight of the occupants or the traffic it carries, the force of the wind etc – is fundamental to its stability. The alliance between architecture and structural engineering is therefore critical to the successful design and completion of the buildings and infrastructure that surrounds us. Yet *structure* is often cloaked in mathematics which many architects and surveyors find difficult to understand.

*How Structures Work* has been written to explain the behaviour of structures in a clear way without resorting to complex mathematics. This new edition includes a new chapter on construction materials, and significant revisions to, and reordering of the existing chapters. It is aimed at all who require a good qualitative understanding of structures and their behaviour, and as such will be of benefit to students of architecture, architectural history, building surveying and civil engineering. The straightforward, non-mathematical approach ensures it will also be suitable for a wider audience including building administrators, archaeologists and the interested layman.

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