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If a skyscraper is 200 m (650 ft) tall
and a gale blows it hard at the top,
there's a huge turning force trying to
tip the whole building over to the side.

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That's why tall buildings need deep foundations (where a significant part of the building is constructed underground to support the part that's above ground). If something tries to push the top the building to one side, the foundations effectively resist and push it back in the opposite direction!

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Among the fifteen titles he wrote are Numerical Methods in Engineering (1953), Structural Design in

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Architecture (1967), Why Buildings Stand Up (1980), Why Buildings Fall Down (1992), and Why The Earth Quakes (1995). The last two were co-written with Matthys Levy.

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so much better than others. Drawing on things he's learned from the many buildings he himself designed (and in some cases built with his own hands), Edward Allen explains complex phenomena such as the role of the sun in heating buildings and the range of structural devices that are used for

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support, from trusses and bearing walls to post-tensioned concrete beams and corbeled vaults. He stresses the importance of intelligent design in dealing with such problems as overheating and overcooling, excessive energy use, leaky roofs and windows, fire safety, and noisy

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interiors. He serves up some surprises: thermal insulation is generally a better investment than solar collectors; board fences are not effective noise barriers; there's one type of window that can be left open during a rainstorm. The new edition emphasizes "green" architecture and

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Architecture design and construction. It features a prologue on sustainable construction, and includes new information on topics such as the collapse of the World Trade Center, sick building syndrome, and EIFS failures and how they could have been prevented. Allen also highlights the

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array of amazing new building materials now available, such as self-cleaning glass, photovoltaics, transparent ceramics, cloud gel, and super-high-strength concrete and structural fibers. Edward Allen makes it easy for everyone--from armchair architects and sidewalk

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superintendents to students of architecture and construction--to understand the mysteries and complexities of even the largest building, from how it recycles waste and controls the movement of air, to how it is kept alive and growing.

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New York City boasts one of the most famous skylines in the world, and the Empire State Building is undeniably the focal point of this incredible view. At 102 stories, the structure was no small feat. In fact, its construction

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coincided with the onset of the Great Depression, and so progress was met with numerous setbacks. Still, because of the efficiency that went into the building's development, it only took a year and forty-five days to complete! In this informative, easy-to-read account, Janet B. Pascal describes the rise of

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skyscrapers in the United States, the intricacies of the groundbreaking construction process, and the effect the iconic Empire State Building continues to have today.

Solid design and craftsmanship are a necessity for structures and

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infrastructures that must stand up to natural disasters on a regular basis. Continuous research developments in the engineering field are imperative for sustaining buildings against the threat of earthquakes and other natural disasters. Performance-Based Seismic Design of Concrete Structures and

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Structures is an informative reference source on all the latest trends and emerging data associated with structural design. Highlighting key topics such as seismic assessments, shear wall structures, and infrastructure resilience, this is an ideal resource for all academicians,

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Architecture Professionals, and researchers that are seeking new knowledge on the best methods and techniques for designing solid structural designs.

I am very much aware that it is an act of extreme rashness to attempt to

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write an elementary book about structures. Indeed it is only when the subject is stripped of its mathematics that one begins to realize how difficult it is to pin down and describe those structural concepts which are often called 'elementary'; by which I suppose we mean 'basic' or

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'fundamental'. Some of the omissions and oversimplifications are intentional but no doubt some of them are due to my own brute ignorance and lack of understanding of the subject.

Although this volume is more or less a sequel to *The New Science of Strong Materials* it can be read as an entirely

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separate book in its own right. For this reason a certain amount of repetition has been unavoidable in the earlier chapters. I have to thank a great many people for factual information, suggestions and for stimulating and sometimes heated discussions.

Among the living, my colleagues at

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Reading University have been generous with help, notably Professor W. D. Biggs (Professor of Building Technology), Dr Richard Chaplin, Dr Giorgio Jeronimidis, Dr Julian Vincent and Dr Henry Blyth; Professor Anthony Flew, Professor of Philosophy, made useful suggestions about the last

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chapter. I am also grateful to Mr John Bartlett, Consultant Neurosurgeon at the Brook Hospital. Professor T. P. Hughes of the University of the West Indies has been helpful about rockets and many other things besides. My secretary, Mrs Jean Collins, was a great help in times of trouble. Mrs

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Nethercot of Vogue was kind to me about dressmaking. Mr Gerald Leach and also many of the editorial staff of Penguins have exercised their accustomed patience and helpfulness. Among the dead, I owe a great deal to Dr Mark Pryor - lately of Trinity College, Cambridge - especially for

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discussions about biomechanics which extended over a period of nearly thirty years. Lastly, for reasons which must surely be obvious, I owe a humble oblation to Herodotus, once a citizen of Halicamassus.

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