# Book Review

"Wind Loading of Structures – Second Edition" by John D. Holmes.

This second edition (2007) of Dr. Holmes book is published by Taylor and Francis and is a substantial expansion on the first edition published in 2001. Every chapter is updated with new or expanded information. The fundamental atmospheric physics are discussed first, and then the many topics associated with wind engineering and bluff-body aerodynamics are explored in logically broken-down chapters. This very readable text now has considerably more recent research on thunderstorms, tornadoes and downbursts than the first edition. There is a new section on modeling tornadoes in the laboratory and some interesting images and discussion of failures of lattice towers and a relatively new and important structural form – the wind turbine support tower. There is a much expanded chapter on wind loading standards used around the world, many of which have had new editions themselves since the first edition of this book. "Wind Loading of Structures" is a fine text for a wind engineering course and a useful reference for the practising wind engineer. There is a very interesting "world survey" of extreme wind climates in Appendix D that illustrates the varying wind regimes we have to deal with around the world. One of the final chapters discusses wind loading on a variety of odd structures that are designed by various specialty engineering teams: microwave dishes, rooftop solar panels, freestanding roofs and walls, awnings, parapets, rotating radar antennas and radio telescopes, as well as the ubiquitous mobile phone tower. I was hoping to see some discussion of wind loads on small tensile fabric roofs, as this industry is truly ignored in most codes around the world (AS/NZ1170 has some data on free hypar fabric roofs) and they are grasping for viable design pressures. Perhaps this will appear in the third edition? Anyway, "Wind Loading of Structures" by John Holmes is a must have for any wind engineer's library.
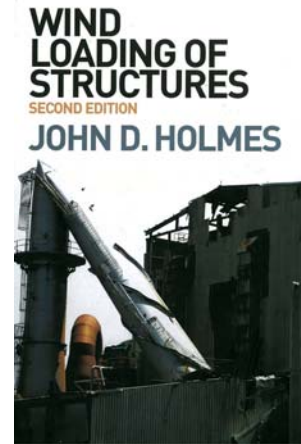
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