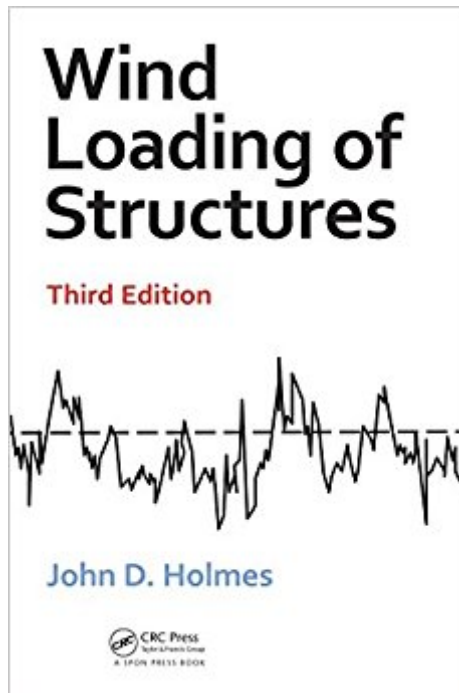




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Wind Loading Of Structures, Third Edition



Synopsis

A Definitive Up-to-Date Reference Wind forces from various types of extreme wind events continue to generate ever-increasing damage to buildings and other structures. *Wind Loading of Structures*, Third Edition fills an important gap as an information source for practicing and academic engineers alike, explaining the principles of wind loads on structures, including the relevant aspects of meteorology, bluff-body aerodynamics, probability and statistics, and structural dynamics. **Written in Line with International Standards** Among the unique features of the book are its broad view of the major international codes and standards, and information on the extreme wind climates of a large number of countries of the world. It is directed towards practicing (particularly structural) engineers, and academics and graduate students. The main changes from the earlier editions are:

Discussion of potential global warming effects on extreme events
More discussion of tornados and tornado-generated damage
A rational approach to gust durations for structural design
Expanded considerations of wind-induced fatigue damage
Consideration of aeolian vibrations of suspended transmission lines
Expansion of the sections on the cross-wind response of tall slender structures
Simplified approaches to wind loads on "porous" industrial, mining, and oil/gas structures
A more general discussion of formats in wind codes and standards
Not dedicated to a specific code or standard, *Wind Loading of Structures*, Third Edition highlights the general format and procedures related to all major codes and standards, addresses structures of various types, and presents you with topics not typically covered in traditional texts such as internal pressures, fatigue damage by wind forces, and equivalent static wind load distributions.

Book Information

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Customer Reviews

"This updated edition presents in a systematic and clear way the modern scientific knowledge and methods for wind loads, discusses wind engineering topics, addresses design issues and offers ample guidance for the effective treatment of wind load design. Overall, the book provides comprehensive guidance for practising structural engineers, in particular those designing structures where the design is dominated by wind-engineering considerations, as well as for students and researchers working with analogous wind-engineering themes in advanced university courses and research."

•Proceedings of the Institution of Civil Engineers "The book gives a detailed, fundamental analysis of wind loading of structures and structural response. It clearly describes the mechanics of wind loading (including the types of windstorms) and the static and dynamic response of structures. This enables the designer to understand the process and makes it a useful design tool. With the application of the range of standards, it has worldwide application."

• Dr John Ginger, Cyclone Testing Station, James Cook University "Holmes is an active and well-respected consultant in the field, and it is obvious that his book was written to fill the huge niche needed to treat real-world problems with wind loading on structures. For this reason it is also the first book I recommend to the many customers I have who

•as practicing structural engineers not wind engineers

•are in need of a comprehensive yet understandable reference text."

• Daryl Boggs, CPP, Inc." | provides in-depth information, and work examples where appropriate, on subjects of special interest, including internal pressure, wind-borne debris and associated damages, wind load effects on special and unusual structures, application of effective static wind load distribution, and comparison of advanced wind loading codes and standards. A unique feature of this book is that it is one of the very few books on wind engineering, if not the only book, that has undergone 2 extensive revisions, first in 2007 and then in 2014, to bring the content up to date with latest advances in knowledge. Furthermore, each chapter contains an exhaustive list of references, including the most recent publications, which is an extremely useful source of information for researchers and practitioners alike.

• | is an excellent book on wind loading of structures. I highly recommend this book by Dr John Holmes for use in graduate and senior undergraduates studies, structural engineering design against wind actions, and other design professional practices."

• Kenny Kwok, University of Western Sydney "The book presents a complete and deep overview of the most important aspects of wind loading. It is easily read by people with a variety of engineering

or technical backgrounds. Each chapter describes the state of the art and lists foundational and actual references."

- Ana Scarabino, Universidad Nacional de La Plata" | a comprehensive and concise textbook for wind engineers | an excellent reference and textbook for graduate students, researchers and professionals."
- Guoqing Huang, Southwest Jiaotong University" | a book with structure and martial suitable for wind engineering course text book as well as for professionals. The area of wind engineering covered and practical examples presented makes wind engineering principles to be easily understood by structural engineers."
- Seifu Bekele, Global Wind Technology Services (GWTS)Praise for the second edition:Wind Loading of Structures is a fine text for a wind engineering course and a useful reference for the practising wind engineer |. A must have for any wind engineer's library.
- Leighton Cochran, Past President, American Association for Wind Engineering"The book provides comprehensive guidance for practising structural engineers | as well as for students and researchers working with analogous wind-engineering themes in advanced university courses and research."
- Charalampos Baniotopoulos, Structures and Buildings

Dr. John D. Holmes is the director of JDH Consulting, Mentone, Victoria, Australia. He has a BSc (Eng.) from the University of Southampton, UK, and a PhD from Monash University, Australia. He is the author of more than 400 papers and reports. He received the Senior Award (A.G. Davenport Medal) from the International Association for Wind Engineering in 2011. He has been involved in the determination of design wind loads for many structures and industrial facilities, as well as the writing of several Australian Standards, and is currently the chair of the Wind Loads Subcommittee for Australia and New Zealand.

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