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Design of Buildings for Wind: A Guide for ASCE 7-10 Standard Users and Designers of Special Structures

By Emil Simiu



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ASCE 7 is the US standard for identifying minimum design loads for buildings and other structures. ASCE 7 covers many load types, of which wind is one. The purpose of this book is to provide structural and architectural engineers with the practical state-of-the-art knowledge and tools needed for designing and retrofitting buildings for wind loads. The book will also cover wind-induced loss estimation. This new edition include a guide to the thoroughly revised, 2010 version of the ASCE 7 Standard provisions for wind loads; incorporate major advances achieved in recent years in the design of tall buildings for wind; present material on retrofitting and loss estimation; and improve the presentation of the material to increase its usefulness to structural engineers.

Key features:

- New focus on tall buildings helps make the analysis and design guidance easier and less complex.
- Covers the new simplified design methods of ASCE 7-10, guiding designers to clearly understand the spirit and letter of the provisions and use the design methods with confidence and ease.
- Includes new coverage of retrofitting for wind load resistance and loss estimation from hurricane winds.
- Thoroughly revised and updated to conform with current practice and research.



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Editorial Review

From the Back Cover

The updated practical guide to the design for wind of low- and medium-rise buildings, tall buildings, and special structures

Design of Buildings for Wind, Second Edition is a practical guide that uses physical and intuitive approaches as well as practical examples to demonstrate how to interpret and use provisions of the ASCE 7-10 Standard and design structures for strength and serviceability. Written by one of the world's foremost wind engineering experts, Emil Simiu, this unique text is written specifically for designers and structural engineers.

Covering routine buildings, tall buildings, and other structures, *Design of Buildings for Wind, Second Edition* contains a wealth of step-by-step numerical examples, as well as links to publicly available software, to assist structural engineers in understanding and using the elements of wind and structural engineering required for design. Thoroughly revised and updated to conform to current practice and research, the *Second Edition* includes:

- New coverage of ASCE 7-10 Standard design methods, guiding designers to clearly understand the spirit, letter, and limitations of the provisions and use the design methods with confidence and ease
- New focus on tall buildings to help make the analysis and design easier and more transparent
- New material on structural reliability and estimation of wind-induced losses

About the Author

Emil Simiu, PE, PhD, is a NIST Fellow and a Fellow at the American Society of Civil Engineers. He served as chairman of its Committee on Wind Effects, Committee on Dynamic Effects, and Committee on the Reliability of Offshore Structures; as senior structural engineer with Severud Associates and Ammann & Whitney, Inc.; and as distinguished research professor at Florida International University's International Hurricane Research Center. Also a distinguished member of the ASCE Standard Committee on Loads, he was a recipient of the Federal Engineer of the Year award from the National Society of Professional Engineers, and of the 2006 Japan Association for Wind Engineering Prize, given to the outstanding wind engineering publication of the year, for the first edition of *Design of Buildings and Bridges for Wind*. In addition, Dr. Simiu is the coauthor of *Wind Effects on Structures, Third Edition* (Wiley).

Users Review

From reader reviews:

Jenny Dill:

The book *Design of Buildings for Wind: A Guide for ASCE 7-10 Standard Users and Designers of Special Structures* give you a sense of feeling enjoy for your spare time. You need to use to make your capable considerably more increase. Book can to be your best friend when you getting tension or having big problem with the subject. If you can make reading a book *Design of Buildings for Wind: A Guide for ASCE 7-10 Standard Users and Designers of Special Structures* to get your habit, you can get more advantages, like add your personal capable, increase your knowledge about a few or all subjects. You are able to know everything

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Mildred Bostwick:

Reading can called thoughts hangout, why? Because when you are reading a book especially book entitled Design of Buildings for Wind: A Guide for ASCE 7-10 Standard Users and Designers of Special Structures your thoughts will drift away trough every dimension, wandering in each and every aspect that maybe unidentified for but surely will become your mind friends. Imaging every word written in a e-book then become one application form conclusion and explanation this maybe you never get just before. The Design of Buildings for Wind: A Guide for ASCE 7-10 Standard Users and Designers of Special Structures giving you an additional experience more than blown away your mind but also giving you useful facts for your better life in this particular era. So now let us explain to you the relaxing pattern here is your body and mind are going to be pleased when you are finished examining it, like winning a game. Do you want to try this extraordinary wasting spare time activity?

Kevin Shepherd:

This Design of Buildings for Wind: A Guide for ASCE 7-10 Standard Users and Designers of Special Structures is great reserve for you because the content and that is full of information for you who have always deal with world and still have to make decision every minute. That book reveal it info accurately using great organize word or we can point out no rambling sentences in it. So if you are read that hurriedly you can have whole info in it. Doesn't mean it only provides straight forward sentences but difficult core information with wonderful delivering sentences. Having Design of Buildings for Wind: A Guide for ASCE 7-10 Standard Users and Designers of Special Structures in your hand like having the world in your arm, information in it is not ridiculous a single. We can say that no reserve that offer you world inside ten or fifteen tiny right but this e-book already do that. So , this is good reading book. Hi Mr. and Mrs. occupied do you still doubt this?

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