



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

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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## Design of Buildings for Wind: A Guide for ASCE 7-10 Standard Users and Designers of Special Structures By *Emil Simiu* Bibliography

- Sales Rank: #473113 in Books
- Published on: 2011-10-11
- Original language: English
- Number of items: 1
- Dimensions: 9.60" h x .92" w x 6.40" l, 1.35 pounds
- Binding: Hardcover
- 338 pages



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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:

##### Georgia Hernandez:

This Design of Buildings for Wind: A Guide for ASCE 7-10 Standard Users and Designers of Special Structures book is not ordinary book, you have it then the world is in your hands. The benefit you have by reading this book is usually information inside this e-book incredible fresh, you will get information which is getting deeper anyone read a lot of information you will get. This specific Design of Buildings for Wind: A Guide for ASCE 7-10 Standard Users and Designers of Special Structures without we comprehend teach the one who examining it become critical in contemplating and analyzing. Don't always be worry Design of

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### **Betty Peoples:**

What is your hobby? Have you heard this question when you got students? We believe that that query was given by teacher to the students. Many kinds of hobby, All people has different hobby. So you know that little person such as reading or as reading through become their hobby. You must know that reading is very important and also book as to be the issue. Book is important thing to incorporate you knowledge, except your current teacher or lecturer. You see good news or update regarding something by book. Amount types of books that can you decide to try be your object. One of them is this Design of Buildings for Wind: A Guide for ASCE 7-10 Standard Users and Designers of Special Structures.

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