Winds Effects on Structures: Fundamentals and Applications to Design

By Emil Simiu, Robert H. Scanlan

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The brand-new edition—with complete, up-to-date coverage of new methods and standards for the construction of wind-resistant structures

Long recognized as the sole source of detailed information on the design of wind-resistant structures, Wind Effects on Structures equips designers and engineers with crucial knowledge concerning the atmosphere, the forces placed on a structure by the wind environment, and the behavior of structures under the action of these forces. Revised, updated, and augmented with material on new building codes, engineering practices, and technology, this latest edition is the most comprehensive and up-to-the-minute reference available on this important subject. New features include:

- Special material on the design of low-rise buildings, including building code provisions for wind loads on these structures
- Technical information on hurricane micrometeorology, computational fluid dynamics, empirical aerolastic models, and many other areas
- Easy-to-use software package for the automatic calculation of wind loads in accordance with ASCE Standard 7-95, and much more

The damage done by recent hurricanes such as Andrew and Iniki has inspired a number of significant developments in the wind engineering field, from increased use of technology to predict structural loading to the creation of more stringent building codes. Long recognized as the sole source of detailed information on the design of wind-resistant structures, Wind Effects on Structures has now been fully revised to address these important changes—providing engineers with completely up-to-date methods and standards for the construction of wind-resistant structures.

Divided into sections on the atmosphere, wind loads, and their effects on structures, the text now incorporates the latest information on the design of low-rise buildings, revised building code standards, and suspended-span structures, plus new material on an extensive range of technical subjects—including across-wind and torsional effects on tall structures, damping of flexible buildings, and progress in wind tunnel modeling. Combining fundamental concepts with real-world applications, this new edition features an easy-to-use software package that enables fast and accurate calculation of wind loads in line with ASCE Standard 7-95 provisions.

Thoroughly updated, revised, and amended, Wind Effects on Structures provides the invaluable guidance designers and engineers need to assure the adequate structural safety and serviceability of virtually any wind-sensitive project.

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Editorial Review

From the Publisher
Recognized as the sole source of detailed information on the design of wind resistant structures, this edition reflects the numerous changes that have occurred during the past decade. Revised, updated, and augmented, it includes the latest information on such topics as windstorm damage and insurance, hurricane micrometeorology, empirical aeroelastic models, progress and limitations in wind tunnel modeling, designing low-rise buildings, and behavior of roofing. A new chapter has been added on standards which includes a useful reference to a recently issued diskette containing an interactive computer version of the ASCE 7-95 Standard provisions for wind loads.

From the Back Cover
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About the Author
EMIL SIMIU, PhD, PE, NIST Fellow, and Research Professor at Johns Hopkins University, has conducted research for the National Institute of Standards and Technology and has served as a consultant for industry, government, and the World Bank. A past chairman of the ASCE Committee on Wind Effects, he was the 1984 recipient of the U.S. Federal Engineer of the Year Award from the National Society of Professional Engineers.

ROBERT H. SCANLAN, PhD, Dr. ès Sci., PE, is Professor Emeritus at Princeton University and Professor of Civil Engineering at Johns Hopkins University. He is a past chairman of the ASCE Committee on Wind Effects, Honorary Member of ASCE, Life Member of ASME, Fellow of the American Academy of Mechanics, and Member of the U.S. National Academy of Engineering.

Users Review

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Nancy Hedrick:

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