



# Wind Effects on Structures: An Introduction to Wind Engineering

*Emil Simiu, Robert H. Scanlan*

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**Wind Effects on Structures: An Introduction to Wind Engineering** Emil Simiu, Robert H. Scanlan

A comprehensive, integrated treatment of wind engineering, covering fundamentals, applications to design, and basic analytical tools. Furnishes detailed design procedures and data for wind resistance in tall buildings, tall stacks, hyperbolic cooling towers, trussed frameworks, suspension bridges, offshore structures, nuclear power plants, and many other structures. Design procedures are illustrated step by step with examples. Fundamentals encompass micrometeorology, climatology, aerodynamics, structural dynamics, aeroelasticity, probability and statistics, structural reliability, and structural engineering.



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