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

Emil Simiu, Toshio Miyata

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Design of Buildings and Bridges for Wind is a practical guide that uses physical and intuitive approaches, and practical examples, to demonstrate how to interpret and use provisions of the ASCE-7 Standard and design structures for strength and serviceability. Written by two of the world's foremost wind engineering experts, this unique text is written specifically for designers and structural engineers. Covering routine buildings, tall buildings, and bridges, Design of Buildings and Bridges for Wind contains a wealth of step-by-step numerical examples to assist structural engineers in understanding and using the elements of wind and structural engineering required for design. This hands-on guide features: Information on how to determine design wind loads and wind effects for both routine and special structures Information allowing structural engineers to effectively scrutinize estimates of wind effects submitted by wind engineering consultants Clear, transparent procedures for developing estimates of wind effects based on aerodynamic data supplied in electronic form by wind tunnel operators Access to wind speed databases and software for determining wind effects on rigid and flexible structures (nist.gov/wind)

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