

Guide to the Use of the Wind Load Provisions of ASCE 7-02

By Kishor C. Mehta, James Delahay



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"Guide to the Use of the Wind Load Provisions of ASCE 7-02" walks practicing professionals through the complicated process of assessing wind loads on a variety of buildings and other structures as set forth in ASCE Standard 7-02. This revised guide addresses new developments in the wind load provisions of ASCE 7-02, including analytical procedures, simplified procedures, terrain exposures, and internal pressures. In order to clearly identify the scope and limitations of the Standard, "Guide to the Use of Wind Load Provisions of ASCE 7-02" provides a brief review of the background material that forms the basis for the Standard's provisions. It includes a discussion of the general format of an analytical procedure used to determine wind loads and the various wind load parameters involved in this determination, such as velocity pressure, gust response factor, and pressure coefficients. Multiple examples using this analytical procedure to determine wind load are also included and worked out in detail. "Guide to the Use of Wind Load Provisions of ASCE 7-02" will assist structural engineers who design buildings and structures following the wind load provisions.



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