



# Wind and Earthquake Resistant Buildings: Structural Analysis and Design (Civil and Environmental Engineering)

*Bungale S. Taranath*

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## **Wind and Earthquake Resistant Buildings: Structural Analysis and Design (Civil and Environmental Engineering)** Bungale S. Taranath

Developed as a resource for practicing engineers, while simultaneously serving as a text in a formal classroom setting, **Wind and Earthquake Resistant Buildings** provides a fundamental understanding of the behavior of steel, concrete, and composite building structures. The text format follows, in a logical manner, the typical process of designing a building, from the first step of determining design loads, to the final step of evaluating its behavior for unusual effects.

Includes a worksheet that takes the drudgery out of estimating wind response.

The book presents an in-depth review of wind effects and outlines seismic design, highlighting the dynamic behavior of buildings. It covers the design and detailing the requirements of steel, concrete, and composite buildings assigned to seismic design categories A through E. The author explains critical code specific items and structural concepts by doing the nearly impossible feat of addressing the history, reason for existence, and intent of major design provisions of the building codes. While the scope of the book is intentionally broad, it provides enough in-depth coverage to make it useful for structural engineers in all stages of their careers.

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