



# Principles of Structural Design: Wood, Steel, and Concrete

*Ram S. Gupta*

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## **Principles of Structural Design: Wood, Steel, and Concrete** Ram S. Gupta

Anyone involved with structural design, whether a student or a practicing engineer, must maintain a functional understanding of wood, steel, and concrete design principles. In covering all of these materials, **Principles of Structural Design: Wood, Steel, and Concrete** fills a gap that exists in the instructional resources. It provides a self-contained authoritative source that elaborates on the most recent practices together with the code-connected fundamentals that other books often take for granted.

Dr. Ram Gupta, a professional engineer, provides readers with insights garnered over a highly active 40-year international career. Organized for ready reference, the book is divided into four main sections.

- Part I covers loads, load combinations, and specific code requirements for different types of loads. It elaborates on the LRFD (load resistance factor design) philosophy and the unified approach to design.
- Part II covers sawn lumber, structural glued laminated timber, and structural composite lumber. It reviews tension, compression, and bending members, as well as the effects of column and beam stabilities and combined forces.
- Part III considers the steel design of individual tension, compression, and bending members. Additionally, it provides designs for braced and unbraced frames. Open-web steel joists and joist girders are included here as they form a common type of flooring system for steel-frame buildings.
- Part IV analyzes the design of reinforced beams and slabs, shear and torsion, compression and combined compression, and flexure in relation to basic concrete structures.

This textbook presents the LRFD approach for designing structural elements according to the latest codes. Written for architecture and construction management majors, it is equally suitable for civil and structural engineers.

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