Designing Tall Buildings: Structure as Architecture

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The first of its kind, *Designing Tall Buildings* is an accessible reference that guides you through the fundamental principles of designing high-rises. Each chapter focuses on one theme central to tall-building design, giving you a comprehensive overview of the related architecture and structural engineering concepts. Mark P. Sarkisian provides clear definitions of technical terms and introduces important equations, to help you gradually develop your knowledge. Later chapters allow you to explore more complex applications, such as biomimicry. Projects drawn from Skidmore, Owings and Merrill's vast catalog of built high-rises, many of which Sarkisian designed, demonstrate these concepts.

This book advises you to consider the influence of a particular site's geology, wind conditions, and seismicity. Using this contextual knowledge and analysis, you can determine what types of structural solutions are best suited for a tower on that site. You can then conceptualize and devise efficient structural systems that are not only safe, but also constructible and economical. Sarkisian also addresses the influence of nature in design, urging you to integrate structure and architecture for buildings of superior performance, sustainability, and aesthetic excellence.

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