

Structural Analysis and Design of Tall Buildings: A Comprehensive Guide

Tall buildings are an increasingly common sight in cities around the world. These towering structures are marvels of engineering, but they also present unique challenges for architects and engineers. One of the most important challenges is ensuring that these buildings are structurally sound and can withstand the forces of nature, such as wind and earthquakes.



Structural Analysis and Design of Tall Buildings: Steel and Composite Construction by Bungale S. Taranath

★★★★★ 5 out of 5

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This comprehensive guide to the structural analysis and design of tall buildings provides everything you need to know to design and build safe and efficient tall buildings. The book covers all aspects of structural analysis and design, from the basics of structural mechanics to the latest advances in computer-aided design. It also includes case studies of some of the world's most iconic tall buildings.

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This chapter provides an overview of the structural analysis and design of tall buildings. It covers the history of tall buildings, the different types of tall buildings, and the challenges involved in designing and building these structures.

Structural Mechanics

This chapter reviews the basic principles of structural mechanics. It covers the concepts of stress, strain, and deformation, as well as the different types of structural elements, such as beams, columns, and slabs.

Analysis of Tall Buildings

This chapter discusses the different methods used to analyze tall buildings. It covers both static and dynamic analysis, as well as the use of computer-aided design (CAD) software.

Design of Tall Buildings

This chapter provides guidance on the design of tall buildings. It covers the different aspects of structural design, such as the selection of materials, the design of structural elements, and the detailing of connections.

Case Studies

This chapter presents case studies of some of the world's most iconic tall buildings. These case studies provide real-world examples of the structural analysis and design of tall buildings.

This comprehensive guide to the structural analysis and design of tall buildings provides everything you need to know to design and build safe and efficient tall buildings. The book is written by a team of experts with decades of experience in the design and construction of tall buildings. It is an essential resource for architects, engineers, and anyone else involved in the design and construction of tall buildings.

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Steel and Composite Construction



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