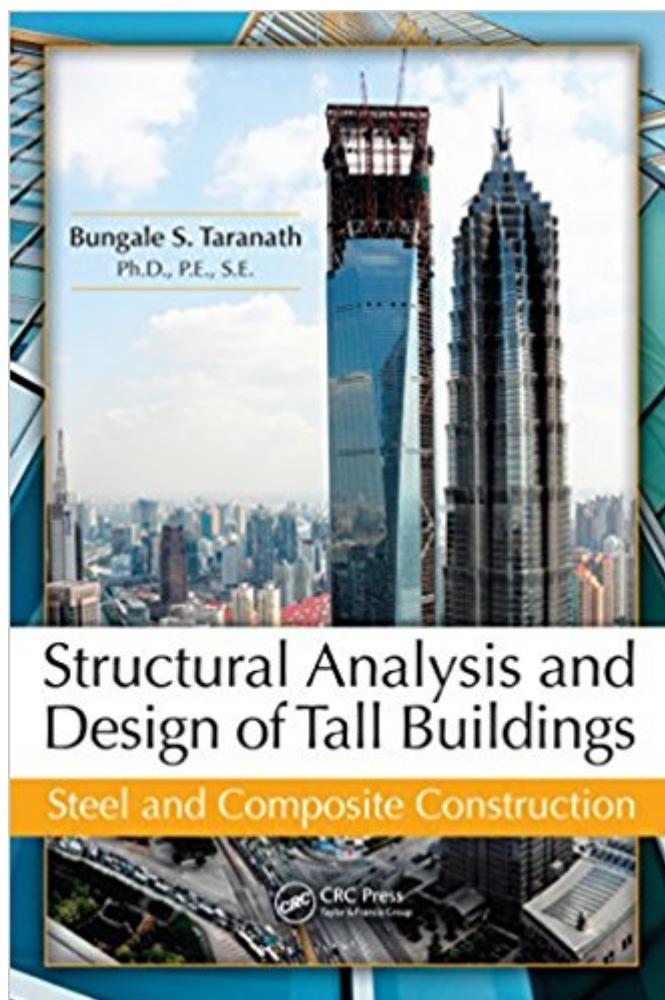


The book was found

Structural Analysis And Design Of Tall Buildings: Steel And Composite Construction



Synopsis

As software skills rise to the forefront of design concerns, the art of structural conceptualization is often minimized. Structural engineering, however, requires the marriage of artistic and intuitive designs with mathematical accuracy and detail. Computer analysis works to solidify and extend the creative idea or concept that might have started out as a sketch on the back of an envelope. From Sketches on the Back of an Envelope to Elegant, Economical Buildings—The Art of Structural Conceptualization Bridging the gap between the conceptual approach and computer analysis, Structural Analysis and Design of Tall Buildings: Steel and Composite Construction integrates the design aspects of steel and composite buildings in one volume. Using conceptual thinking and basic strength of material concepts as foundations, the book shows engineers how to use imperfect information to estimate the answer to larger and more complex design problems by breaking them down into more manageable pieces. Written by an accomplished structural engineer, this book discusses the behavior and design of lateral load-resisting systems; the gravity design of steel and composite floors and columns; and methods for determining wind loads. It also examines the behavior and design of buildings subject to inelastic cyclic deformation during large earthquakes—with an emphasis on visual and descriptive analysis—as well as the anatomy of seismic provisions and the rehabilitation of seismically vulnerable steel buildings. Intuitive Techniques for Construction and Design The book covers a range of special topics, including performance-based design and human tolerance for the wind-induced dynamic motions of tall buildings. It also presents preliminary analysis techniques, graphical approaches for determining wind and seismic loads, and graphical aids for estimating unit-quantity of structural steel. The final chapter deals with the art of connection design. Forty case studies—from New York’s Empire State Building to Kuala Lumpur’s Petronas Towers—highlight the aspects of conceptualization that are key in the design of tall and ultra-tall buildings. A comprehensive design reference, this book guides engineers to visualize, conceptualize, and realize structural systems for tall buildings that are elegant and economical.

Book Information

File Size: 134950 KB

Print Length: 722 pages

Publisher: CRC Press; 1 edition (April 19, 2016)

Publication Date: April 19, 2016

Sold by: Digital Services LLC

Language: English

ASIN: B008KZCCJY

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #509,403 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #39
in Δ Books > Engineering & Transportation > Engineering > Civil & Environmental > Seismic Design #140 in Δ Kindle Store > Kindle eBooks > Crafts, Hobbies & Home > Home Design > Buildings & Construction #236 in Δ Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Civil > Construction

Customer Reviews

Excellent

[Download to continue reading...](#)

Structural Analysis and Design of Tall Buildings: Steel and Composite Construction Composite Construction for Homebuilt Aircraft: The Basic Handbook of Composite Aircraft Aerodynamics, Construction, Maintenance and Repair Plus, How-To and Design Information Tall Buildings: The Proceedings of a Symposium on Tall Buildings with Particular Reference to Shear Wall Structures, Held in the Department of Civil Engineering, University of Southampton, April 1966 Tall Building Design: Steel, Concrete, and Composite Systems Energy Conservation in the Design of Multi-Storey Buildings: Papers Presented at an International Symposium Held at the University of Sydney from 1 to ... the Council for Tall Buildings and Urban Hab Design and Analysis of Structural Joints with Composite Materials 2012 IBC Structural/Seismic Design Manual Volume 4: Examples for Steel-Framed Buildings Damage Mechanics of Composite Materials, Volume 9 (Composite Materials Series) Round Buildings, Square Buildings, and Buildings that Wiggle Like a Fish (A Borzoi book) Round Buildings, Square Buildings, and Buildings that Wiggle Like a Fish Composite Structures & Construction: Modern Methods In Wet Lay-up & Prepreg Construction for Aerospace / Automotive / Marine Applications (DIY Home Workshop Book 2) Reinforced Concrete Design of Tall Buildings 2012 Wood Design Package - including the National Design Specification Δ for Wood Construction (NDS Δ) & NDS Supplement: Design Values for Wood Construction (4 volumes set) Intergender Wrestling: Tall Women Taming Men: All s are Over 6 Foot Tall. Beautiful and

Powerful In the Tall, Tall Grass (CBB) Short: Walking Tall When You're Not Tall At All Composite Materials: Materials, Manufacturing, Analysis, Design and Repair Design and Analysis of Composite Structures: With Applications to Aerospace Structures Structural Analysis and Synthesis: A Laboratory Course in Structural Geology Structural Analysis and Synthesis: A Laboratory Course in Structural Geology 3rd (third) edition by Rowland, Stehen M., Duebendorfer, Ernest M., Schiebelbein, I published by Wiley-Blackwell (2007) [Spiral-bound]

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)