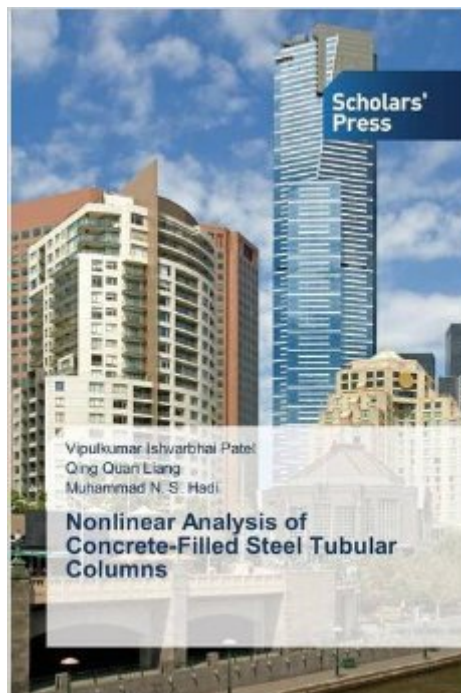


The book was found

Nonlinear Analysis Of Concrete-Filled Steel Tubular Columns



Synopsis

High-strength thin-walled concrete-filled steel tubular (CFST) columns are widely used in modern composite buildings, bridges and offshore structures due to their high structural performance and construction advantages. Thin-walled CFST slender columns may undergo local and global buckling, which significantly reduces their strength and ductility. The nonlinear analysis and design of CFST columns with local buckling effects are highly complicated without the aids of computer programs. This book presents accurate and robust numerical models for simulating the behavior of normal and high strength thin-walled CFST columns incorporating the important effects of local buckling and concrete confinement. It describes the nonlinear analysis procedures and fundamental behavior of circular and rectangular CFST short and slender columns under various design actions, including axial load, uniaxial bending, biaxial bending, preloads, and cyclic lateral loading or combined actions. This book is written for practicing structural and civil engineers, students, and academic researchers who want to be familiar with the latest numerical analysis technologies for thin-walled CFST columns.

Book Information

Paperback: 196 pages

Publisher: Scholars' Press (June 30, 2015)

Language: English

ISBN-10: 3639665368

ISBN-13: 978-3639665369

Product Dimensions: 6 x 0.4 x 9 inches

Shipping Weight: 12.6 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,034,564 in Books (See Top 100 in Books) #211 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Concrete #4588 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Environmental

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

Nonlinear Analysis of Concrete-Filled Steel Tubular Columns Seismic Design Aids for Nonlinear Pushover Analysis of Reinforced Concrete and Steel Bridges (Advances in Earthquake Engineering) The Men of Steel Anthology: The Men of Steel (special edition 2015 includes new release Raising Steel: Momma Joe's story) Global Propagation of Regular Nonlinear Hyperbolic Waves (Progress in Nonlinear Differential Equations and Their Applications, No. 76) A Hundred

White Daffodils: Essays, Interviews, The Akhmatova Translations, Newspaper Columns, and One Poem
Hardening, Tempering, Annealing and Forging of Steel: A Treatise on the Practical, Treatment and Working of High and Low Grade Steel (Classic Reprint)
Tall Building Design: Steel, Concrete, and Composite Systems
Design of Steel-Concrete Composite Bridges to Eurocodes
Principles of Structural Design: Wood, Steel, and Concrete, Second Edition
Techniques of Staircase Construction: Technical and Design Instructions for Stairs Made of Wood, Steel, Concrete, and Natural Stone
Effect of Chloride & Temperature on Rusting of Steel Reinforced Concrete 2nd Ed
Black & Decker The Complete Guide to Concrete & Masonry, 4th Edition: Build with Concrete, Brick, Block & Natural Stone (Black & Decker Complete Guide)
Corrosive Signs: Essays on Experimental Poetry (Visual, Concrete, Alternative) (Visual, Concrete, Alternative)
Nonlinear Systems: Analysis, Stability, and Control (Interdisciplinary Applied Mathematics)
Theory of Nonlinear Structural Analysis: The Force Analogy Method for Earthquake Engineering
Nonlinear Analysis for Human Movement Variability
Nonlinear Power Flow Control Design: Utilizing Exergy, Entropy, Static and Dynamic Stability, and Lyapunov Analysis (Understanding Complex Systems)
Structural Analysis and Design of Tall Buildings: Steel and Composite Construction
Story Maps: MAN OF STEEL
Screenplay Analysis
Reinforced Concrete Structures: Analysis and Design, Second Edition

[Dmca](#)