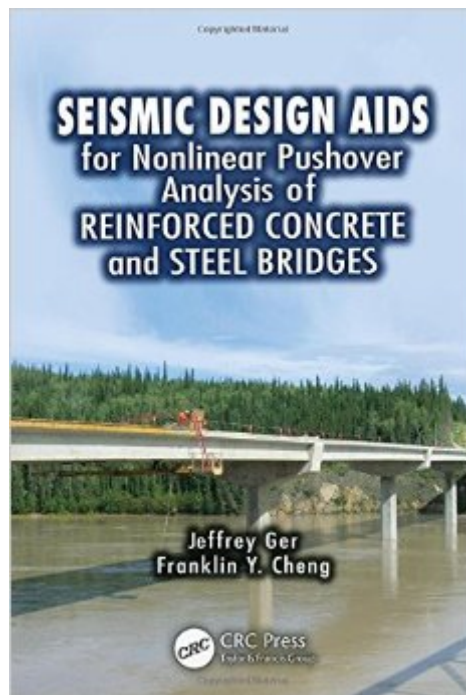


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Seismic Design Aids For Nonlinear Pushover Analysis Of Reinforced Concrete And Steel Bridges (Advances In Earthquake Engineering)



Synopsis

Nonlinear static monotonic (pushover) analysis has become a common practice in performance-based bridge seismic design. The popularity of pushover analysis is due to its ability to identify the failure modes and the design limit states of bridge piers and to provide the progressive collapse sequence of damaged bridges when subjected to major earthquakes. *Seismic Design Aids for Nonlinear Pushover Analysis of Reinforced Concrete and Steel Bridges* fills the need for a complete reference on pushover analysis for practicing engineers. This technical reference covers the pushover analysis of reinforced concrete and steel bridges with confined and unconfined concrete column members of either circular or rectangular cross sections as well as steel members of standard shapes. It provides step-by-step procedures for pushover analysis with various nonlinear member stiffness formulations, including: Finite segmentâ “finite string (FSFS) Finite segmentâ “moment curvature (FSMC) Axial loadâ “moment interaction (PM) Constant moment ratio (CMR) Plastic hinge length (PHL) Ranging from the simplest to the most sophisticated, the methods are suitable for engineers with varying levels of experience in nonlinear structural analysis. The authors also provide a downloadable computer program, INSTRUCT (INelastic STRUCTural Analysis of Reinforced-Concrete and Steel Structures), that allows readers to perform their own pushover analyses. Numerous real-world examples demonstrate the accuracy of analytical prediction by comparing numerical results with full- or large-scale test results. A useful reference for researchers and engineers working in structural engineering, this book also offers an organized collection of nonlinear pushover analysis applications for students.

Book Information

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This excellent book provides the step-by-step procedures for pushover analysis of structures. Pushover analysis is to find out the structure response when the structural material reaches its inelastic range. I did not take any inelastic structural analysis courses when I was in the collage. This book provides me a good understanding of what inelastic analysis is all about. Also the appendices of this book provides readers the basic knowledge of structural dynamics, which is very helpful for me to get familiar with the inelastic analysis of structures subjected to earthquake. Great book!

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