

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

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Seismic Design Aids for Nonlinear Analysis of Reinforced Concrete Structures simplifies the estimation of base structural parameters and enables accurate evaluation of proper bounds for the safety factor. Many design engineers make the relatively common mistake of using default properties of materials as input to nonlinear analyses without realizing that any minor variation in the nonlinear characteristics of constitutive materials, such as concrete and steel, could result in a solution ...

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Seismic Design Aids for Nonlinear Analysis of Reinforced Concrete by Giorgio, Luciano , and Chandrasekaran. Leave a Comment / Civil Books Platform, Concrete Structures Books / By admin. Nonlinear analysis methods such as static pushover are globally considered a reliable tool for seismic and structural assessment. But the accuracy of seismic capacity estimates—which can prevent catastrophic loss of life and astronomical damage repair costs—depends on the use of the correct basic input ...

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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.

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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 ...

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Seismic Design Aids for Nonlinear Pushover Analysis of Reinforced Concrete and Steel Bridges. The nonlinear static monotonic analysis, or pushover analysis, has become a common procedure in current structural engineering practice (ATC-40, 1996; FEMA-273, 1997; FEMA-356, 2000).

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Seismic Design Aids for Nonlinear Analysis of Reinforced Concrete Structures (with examples and computer coding) is an attempt toward clarifying and simplifying the complexities involved in estimating some basic input parameters required for such analyses.

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Seismic Design Aids for Nonlinear Analysis of Reinforced Concrete Structures Srinivasan Chandrasekaran, Luciano Nunziante, Giorgio Serino, Federico Carannante Tools to Safeguard New Buildings and Assess Existing Ones Nonlinear analysis methods such as static pushover are globally considered a reliable tool for seismic and structural assessment.

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through modal relationships to the seismic demands of the MDOF system. In this study the applicability of the pushover method as an alternative mean to general design and assessment is

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examined. Initially a series of SDOF systems is subjected to two different pushover methods and to nonlinear-time-history analyses. The results from this

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The paper deals with the seismic response analysis of nonlinear secondary oscillators. Bilinear, sliding and rocking single-degree-of-freedom dynamic systems are analysed as representative of a wide ...

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