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Engineering) Jeffrey Ger, Franklin Y. Cheng. 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

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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.

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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. The necessity of safe seismic design of structures is becoming a big concern

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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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review panel. Seismic responses of two major components from
both mainshock and ms-as sequences were monitored throughout
the nonlinear time-history analysis.

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