



Seismic Design Aids for Nonlinear Analysis of Reinforced Concrete Structures (Hardback)

By Srinivasan Chandrasekaran, Luciano Nunziante, Giorgio Serino

Taylor Francis Inc, United States, 2009. Hardback. Condition: New. New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. Tools to Safeguard New Buildings and Assess Existing OnesNonlinear 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 parameters. Seismic Design Aids for Nonlinear Analysis of Reinforced Concrete Structures simplifies the estimation of those vital parameters. 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 error that leads to incorrect assessment or interpretation. Streamlined Analysis Using a Mathematical ModelTo achieve a more accurate pushover analysis and improve general performance-based design, this book reassesses some key inputs, including axial force-bending moment yield interaction, moment-curvature, and momentrotation characteristics. It analyzes these boundaries using a detailed mathematical model of reinforced...



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