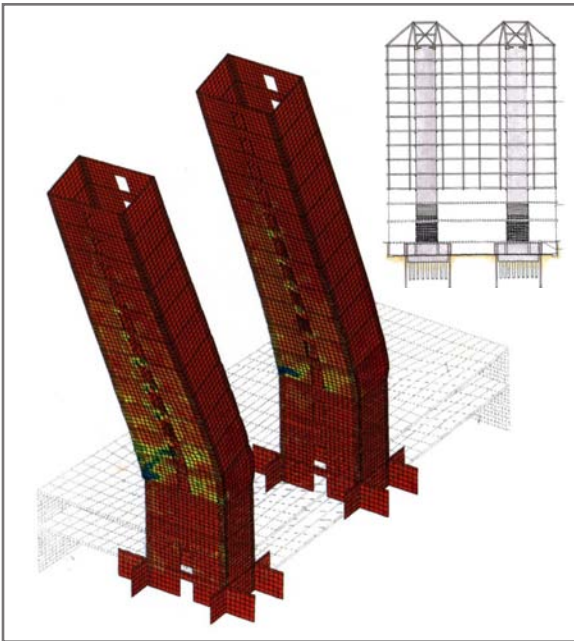




## NEHRP Seismic Design Technical Brief No. 4



# Nonlinear Structural Analysis For Seismic Design

A Guide for Practicing Engineers

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## NEHRP Seismic Design Technical Briefs

NEHRP (National Earthquake Hazards Reduction Program) Technical Briefs are published by NIST, the National Institute of Standards and Technology, as aids to the efficient transfer of NEHRP and other research into practice, thereby helping to reduce the nation's losses from earthquakes.

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## A Guide for Practicing Engineers

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The policy of the National Institute of Standards and Technology is to use the International System of Units (metric units) in all of its publications. However, in North America in the construction and building materials industry, certain non-SI units are so widely used instead of SI units that it is more practical and less confusing to include measurement values for customary units only in this publication.

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Cover photo – Nonlinear analysis model for a seismic retrofit study of an existing building with concrete shear walls.

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