What are the Impacts of Transportation on:
The National Economy, Global Economy, Safety, Security, Energy, Sustainability, Environment, and Human Health
Controlling Seismic Damage of Concrete Bridge Columns Using Damage Avoidance Design

Concept of Damage Avoidance Design

Conventional RC Column + Replaceable Structural Fuse = Controlled Rocking System

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Some research questions:

- How can we reduce the environmental impact of structural engineering?
- What is the influence of climate on structural materials?
- How can modern computing technology improve our understanding of structures?
- How does the behavior of real structures differ from designers’ expectations?