Evaluation of Seismic Performance of Highway Transportation System
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Performance of Highway Network
- Scenario Earthquakes
  - Intensity of Bridge Failure
  - Bridge Damageability (and Retrofitted)
- Remaining Traffic Capacity of Damaged Highway Network
- Traffic Flow Analysis
  - Economic Analysis & Benefit Cost Ratio

63 Probabilistic Scenario Earthquakes
- Rating Curve obtained on the basis of over 4 empirical attenuation relations

Bridge Damageability in terms of Fragility Curves Before and After Retrofit

Traffic Flow Analysis:
Baseline Origin-Destination (OD) Data
1996 Southern California Origin-Destination Survey

Compressed Origin-Destination (OD) Data

Cost-Benefit Analysis of Highway Network

Effect of Bridge Retrofit on System Restoration Curve
Average hourly wage ~$21,776 for Los Angeles as 2005 I.D.

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