

Fragility of Residential Chimneys in Induced Earthquakes





Chimney Fragility in Induced Earthquakes

Observed Chimney Damage

Induced earthquakes have caused damage to infrastructure in OK and KS.



• Residential chimneys were a common building component that sustained damage.

Collapsed chimney from the 2011 Prague, OK M_w 5.7 Earthquake. (Gallucci 2014)

Research Question - Do induced ground motions pose different risks to infrastructure when compared to similar tectonic (natural) ground motions?

Chimney Model

Chimney Fragility in Induced Earthquake	S
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