



Mechanical resonance is the tendency of a mechanical system to absorb more energy when the frequency of its oscillations matches the system's natural frequency of vibration (*its natural or resonant frequency*) than it does at other frequencies.


When energy is added at this natural frequency some rather large amplitude vibrations can result!


 http://www.youtube.com/watch?v=urYWaHfel6g&safety_mode=true&persist_safety_m

Ode to Joy



 http://www.youtube.com/watch?v=Rlk59xdM_YY&feature=related

Wine Glass

 <http://www.youtube.com/watch?v=dU0OqVDI7kc&feature=related>

 <http://www.youtube.com/watch?v=17tqXgvCN0E&feature=related>

Tacoma Narrows (1940)

 <http://www.youtube.com/watch?v=j-zczJXSxnw&feature=related>
 <http://science.howstuffworks.com/29833-understanding-tacoma-narrows-bridge-video.l>