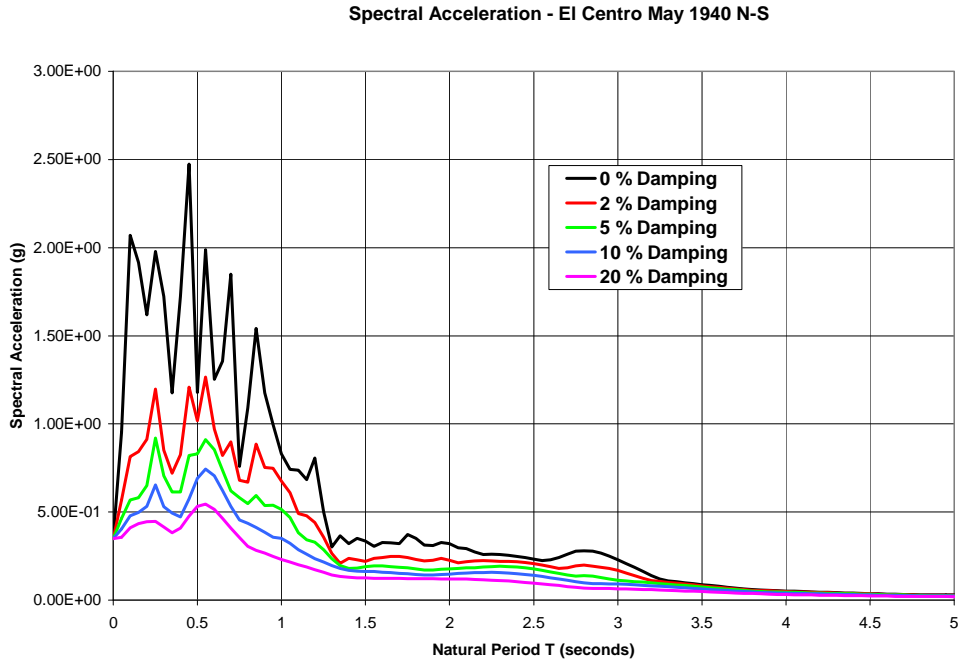
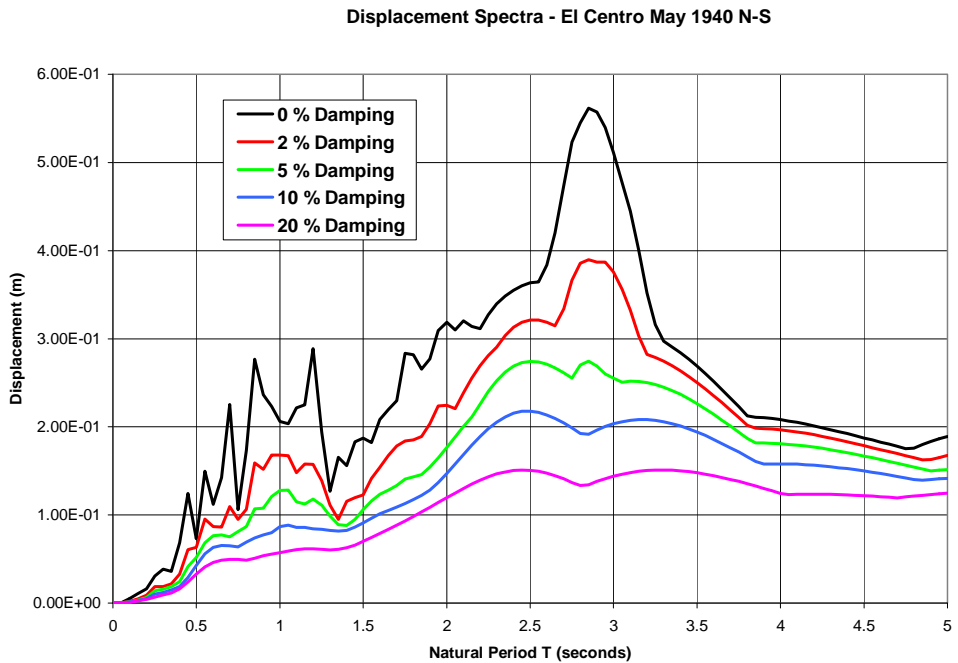


then repeated for different levels of viscous damping. These results are then plotted to produce the response spectra graphs, examples of which are shown in Figures 4 and 5.



**Figure 4. Acceleration Response Spectra
El Centro May 1940 – North-South Component**



**Figure 5. Displacement Response Spectra
El Centro May 1940 – North-South Component**

The response spectrum shown in figures 4 and 5 are specific to the selected earthquake acceleration history records. It must be noted that this is not a spectral analysis of the acceleration record itself. The spectra represent the response of a building with a Inelastic Response Spectra for the Christchurch Acceleration Records