**Assume a solution of displacement (x)**

**Calculate based on T and n**

**Chose time interval (T) and number of samples in time (n)**

**Optimization Loop**

**NO**

**Update using optimization routine**

**YES**

**Report the solution**

**If**

**Calculate the residual by substituting , , and in the governing equation,**

**Calculate and   in the frequency domain**

**Transfer () to frequency domain () using fft**