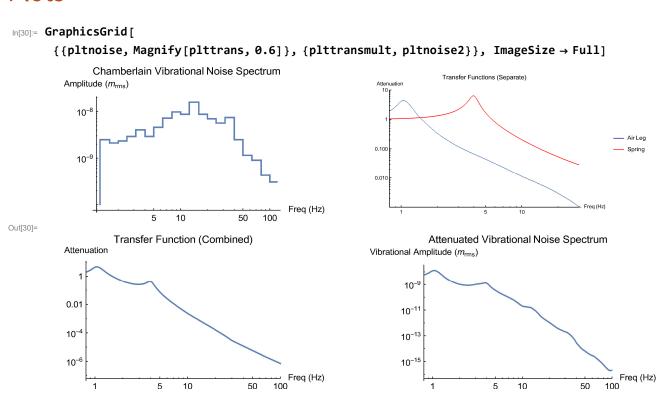
Vibrational Isolation - Damped Spring

Plots



Optimal Parameters

We know: $mg = k\Delta l \& \omega_0 = \sqrt{k/m} \implies \omega_0 = \sqrt{\frac{g}{\Delta l}}$

Resonant Freq: $\omega_0 = 25.1327 \, \text{rad/s}$

Damping: γ = 2.01062

Spring Stretched Length: $\triangle \ell = 1.6 \text{ cm}$