Material Properties

Spring (15 turns w/ damping)

In[72]:= `plt7 = Magnify[outputTransferFunction [kS[0.9 * 10^{-3}, 1 * 10^{-2}, 15, 78 * 10^9], 1], 1.1]`

Out[72]=

Chamberlain Vibrational Noise Spectrum

Transfer Functions (Separate)

- Air Leg
- Spring

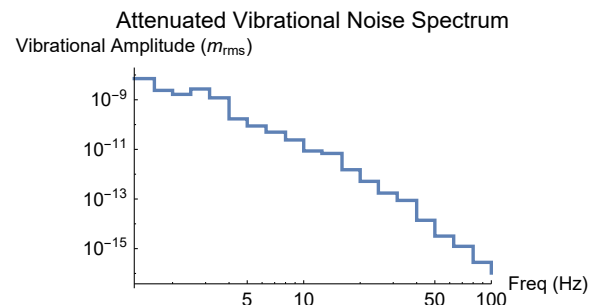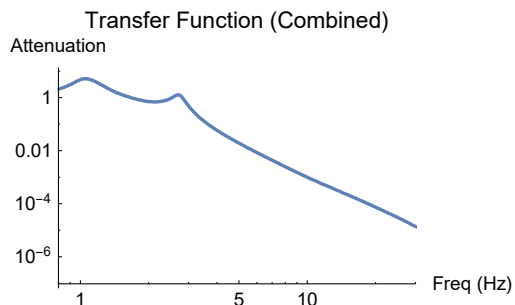**Transfer Function (Combined)**

Attenuated Vibrational Noise Spectrum
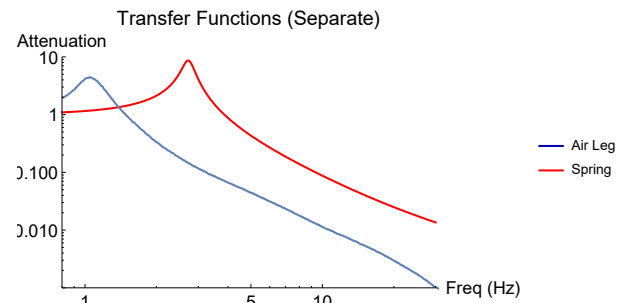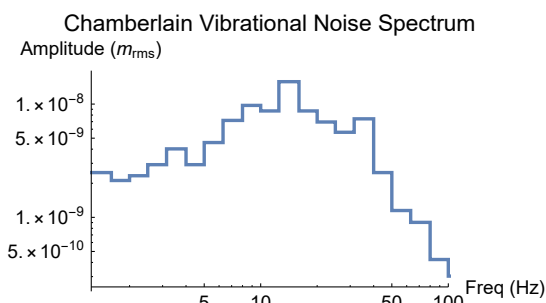
Spring (100 turns w/ damping)

In[71]:= `plt7 = Magnify[outputTransferFunction [kS[0.9 * 10^-3, 1 * 10^-2, 100, 78 * 10^9], 1], 1.1]`

Out[71]=

Chamberlain Vibrational Noise Spectrum

Transfer Functions (Separate)

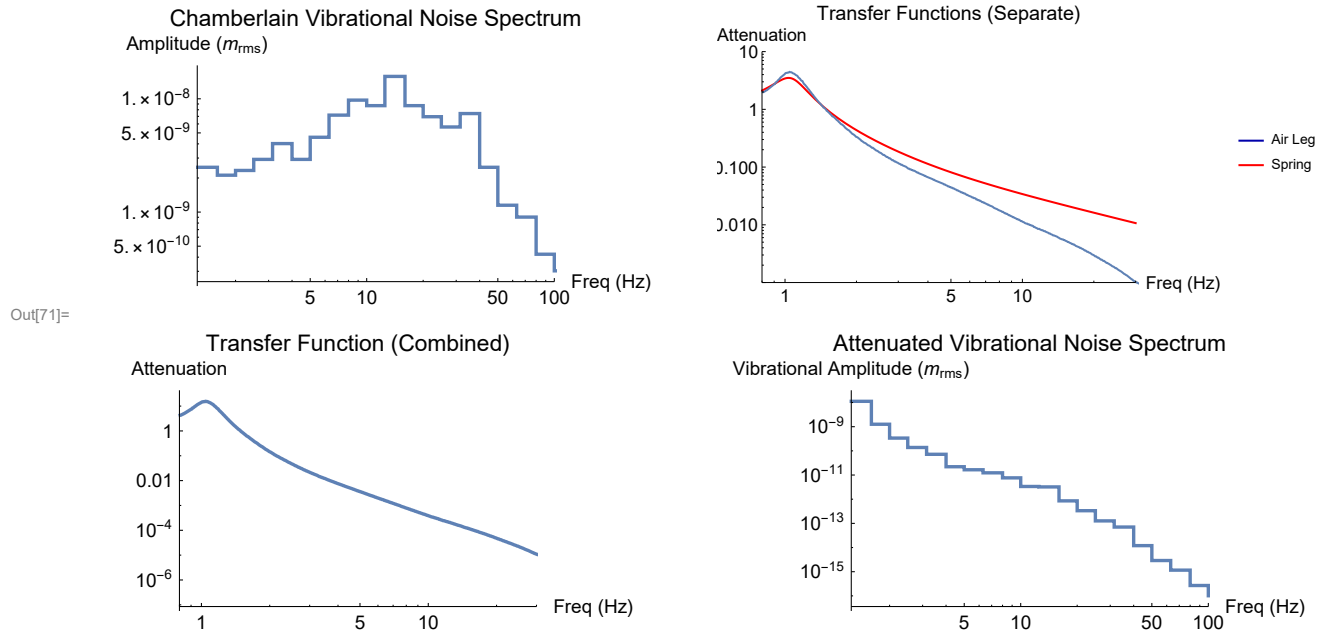### Transfer Function (Combined)

Attenuated Vibrational Noise Spectrum

Spring (500 turns w/ damping)

In[78]:= `plt7 = Magnify[outputTransferFunction [kS[0.9 * 10^-3, 1 * 10^-2, 500, 78 * 10^9], 1], 1.1]`

Out[78]=

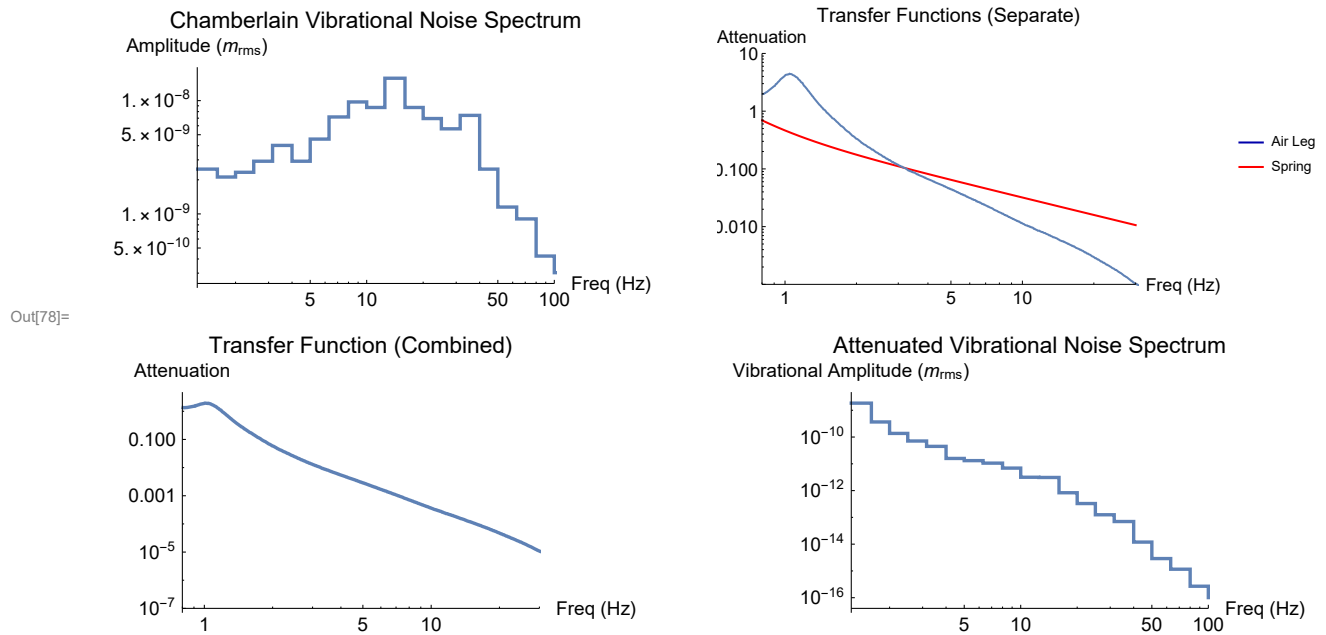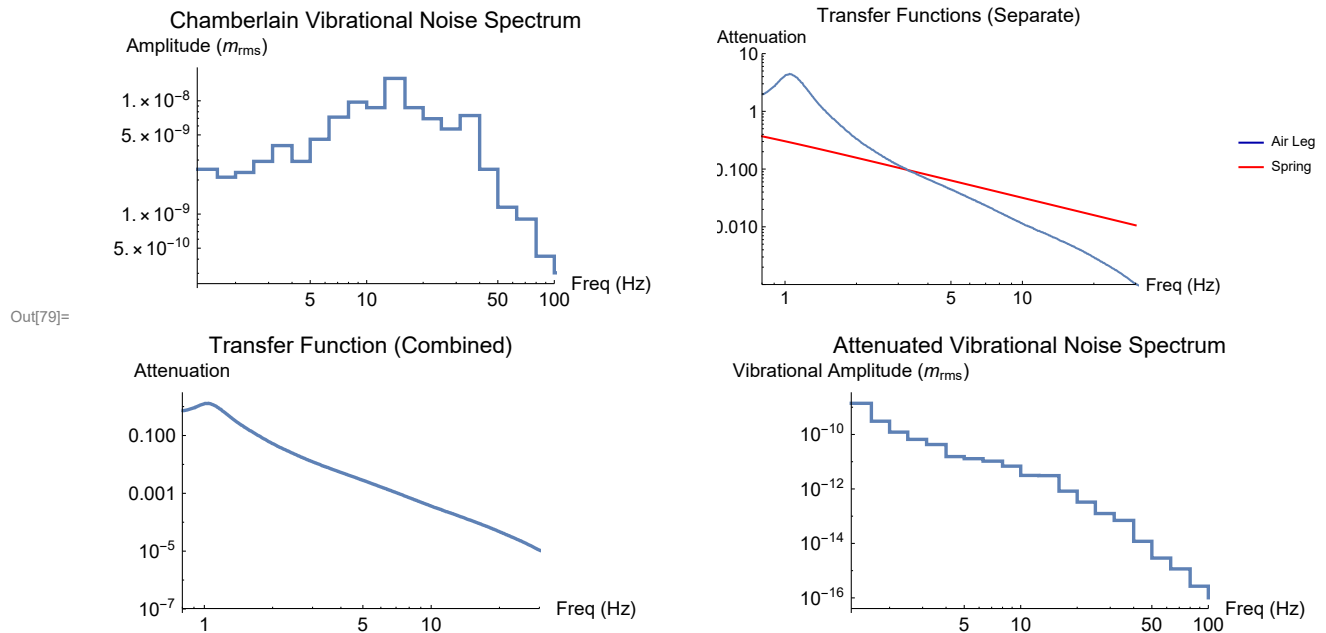### Chamberlain Vibrational Noise Spectrum

Transfer Functions (Separate)

Transfer Function (Combined)

Attenuated Vibrational Noise Spectrum

Spring (∞ turns w/ damping)

In[79]:= **plt7 = Magnify[outputTransferFunction[kS[0.9 * 10⁻³, 1 * 10⁻², ∞, 78 * 10⁹], 1], 1.1]**

Out[79]=

Chamberlain Vibrational Noise Spectrum

Transfer Functions (Separate)

Transfer Function (Combined)

Attenuated Vibrational Noise Spectrum

Spring (∞ turns, no damping)

In[80]:= **plt7 = Magnify[outputTransferFunction[kS[0.9 * 10⁻³, 1 * 10⁻², ∞, 78 * 10⁹], 0], 1.1]**

Out[80]=

Chamberlain Vibrational Noise Spectrum

Transfer Functions (Separate)

Transfer Function (Combined)

Attenuated Vibrational Noise Spectrum