

Single Degree of Freedom Vibration Calculator:

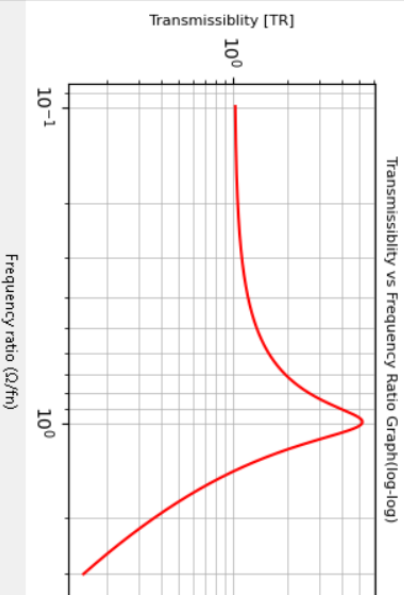
Free vibration

Parameters:.....

- * Mass [m]:
(Default value = 1 unit)
- * Spring rate (Stiffness) [k]:
(Default value = 3600 unit)
- * Damping ratio (coefficient) [ζ]:
(Default value = 0.1)
- * Harmonic input frequency [Ω]:
(Default value = 10 Hz)

Result:.....give calculate>>>>

- Circular frequency [ωn] =
- Natural frequency [fn] =
- Period of oscillation [T] =
- Critical damping [cc] =
- Damping factor [c] =
- Damped natural angular frequency [ωd] =
- Damped natural frequency [fnd] =
- Quality factor [Q] =
- Transmissibility [TR] =

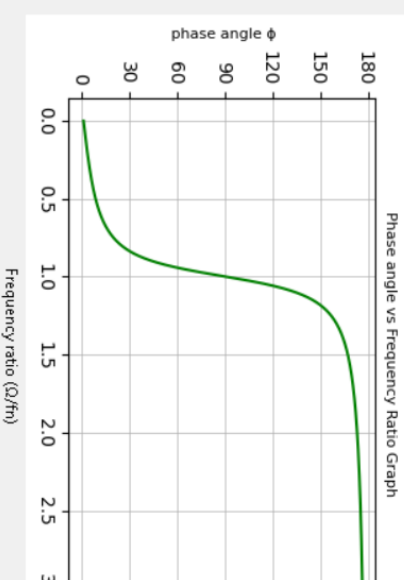
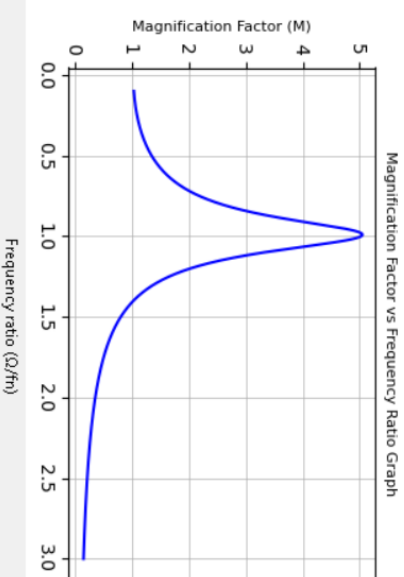


Forced vibration

5
5
0.1
20

Calculate

- 19.649
- 3.127
- 0.32
- 89.127
- 8.913
- 19.551
- 3.112
- 5.0
- 0.041



<---SUBMIT

lb

lb/f/m

Hz

- rad/s
- Hz
- seconds
- N s/m
- N s/m
- rad/s
- Hz
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