

- P1.91** Calculate the natural frequency and damping ratio for the system in Figure P1.91 given the values $m = 10$ kg, $c = 100$ kg/s, $k_1 = 4000$ N/m, $k_2 = 200$ N/m and $k_3 = 1000$ N/m. Assume that no friction acts on the rollers. Is the system overdamped, critically damped or underdamped?

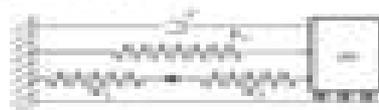


Figure P1.91

Solution: Following the procedure of Example 1.5.4, the equivalent spring constant is

$$k_{eq} = k_1 + \frac{k_2 k_3}{k_2 + k_3} = 4000 + \frac{(200)(1000)}{1200} = 4167 \text{ N/m}$$

Then using the standard formulas for frequency and damping ratio:

$$\omega_n = \sqrt{\frac{k_{eq}}{m}} = \sqrt{\frac{4167}{10}} = 20.412 \text{ rad/s}$$

$$\zeta = \frac{c}{2m\omega_n} = \frac{100}{2(10)(20.412)} = 0.245$$

Thus the system is underdamped.

- P1.92** Calculate the natural frequency and damping ratio for the system in Figure P1.92. Assume that no friction acts on the rollers. Is the system overdamped, critically damped or underdamped?



Figure P1.92

Solution: Again using the procedure of Example 1.5.4, the equivalent spring constant is

$$k_{eq} = k_1 + k_2 + k_3 + \frac{k_4 k_5}{k_4 + k_5} = (10 + 1 + 4) + \frac{2 \times 3}{2 + 3} \text{ kN/m} = 16.2 \text{ kN/m}$$

Then using the standard formulas for frequency and damping ratio:

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Lei Huang



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