

Assignment 4

1. Consider a spring-mass system, with $k=4000\text{N/m}$ and $m = 10\text{kg}$, subject to a harmonic force $F(t) = 400 \cos(20t)$. The initial condition is $u_0=0.1\text{m}$ and $v_0=0$. Find and plot the total response of the system.
2. Problem 3.1