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the vibration of the frame in the vertical direction can be modeled by a spring made of a slender bar as illustrated in figure 1 where the helicopter is modeled as ground here  $l = 0.20 \text{ m}$ ,  $e = 0.10 \text{ m}$ ,  $I = 2 \times 10^{-6} \text{ m}^4$  and  $m = 100 \text{ kg}$

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