

13. (II) An elevator (mass 4850 kg) is to be designed so that the maximum acceleration is $0.0680g$. What are the maximum and minimum forces the motor should exert on the supporting cable?

1. Free Body

2. $F = ma$

3. solve

max

$$\cancel{F_T} \quad \boxed{F_T - mg = m \times a}$$

$$F_T = ma + mg$$

$$F_T = m \cdot 0.0680g + mg$$

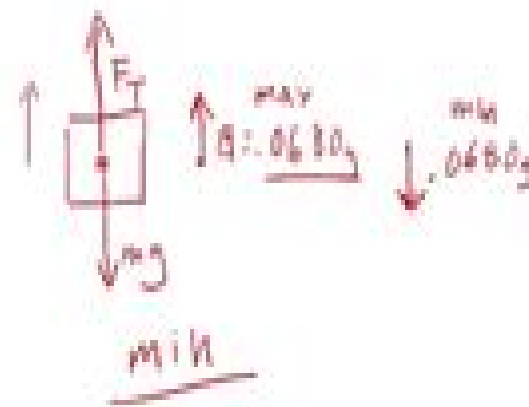
$$F_T = 1.0680g \times m$$

$$F_T = 1.0680 \times 9.8 \times 4850 \text{ kg}$$

$$= 50762 \text{ N}$$

$$= 5.08 \times 10^4 \text{ N}$$

max



Giancoli Chapter 4 Answers

Clemens Wendtner

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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