

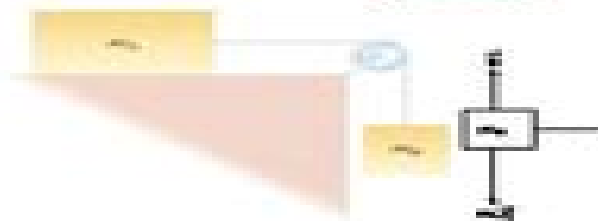
Mastering Physics (Chapter 4)

[illegible]

Three identical blocks, connected by ideal (massless) strings were being pulled along a horizontal frictionless surface by a horizontal force \vec{F} . Figure 1.77 shows the magnitude of the tension in the string between blocks B and C as a function of the magnitude of the pulling force. Assume that each block has mass $m = 0.500 \text{ kg}$.

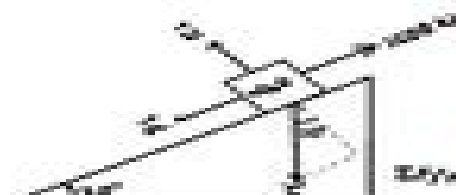


[illegible]



A 400-kg piano is being unloaded from a truck by rolling it down a ramp inclined at 20° . There is negligible friction and the ramp is 15.0 m long. Two workers slide the piano at the rate at which the piano moves by pushing with a combined force of 5200 N parallel to the ramp.

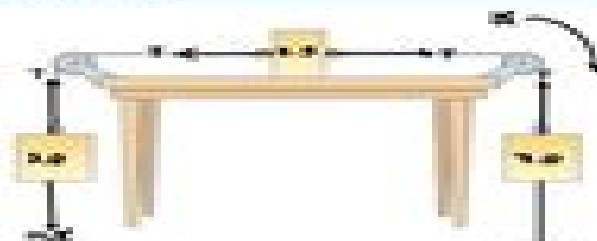
11 Express y in terms of x and z for the system of linear equations.



$$\left. \begin{aligned} \vec{E}_1 &= E_0 \cos(k_1 x - \omega t) \hat{y} \quad (\text{propagates}) \\ \vec{B}_1 &= B_0 \cos(k_1 x - \omega t) \hat{z} \\ \vec{E}_2 &= E_0 \cos(k_2 x - \omega t) \hat{y} \\ \vec{B}_2 &= B_0 \cos(k_2 x - \omega t) \hat{z} \end{aligned} \right\} \begin{aligned} v_{E_1} &= \frac{E_0}{\mu_0 B_0} \sin(k_1 x - \omega t) = \frac{E_0}{B_0} \sin(k_1 x - \omega t) \\ v_{E_2} &= \frac{E_0}{\mu_0 B_0} \sin(k_2 x - \omega t) = \frac{E_0}{B_0} \sin(k_2 x - \omega t) \\ &= v_{E_1} \cos(k_1 x - k_2 x) = v_{E_1} \cos(k_1 x - k_2 x) \end{aligned}$$

A parent pulls his child in a wagon across a lawn. The child tells wagon Father is (stretched) more of 20

At 2.5 kg, the fish is observed on a horizontal surface. The fish is controlled by downward upward-down horizontal paths to a 7.0-kg fish on the right, and a 5.0-kg fish on the left, as shown in Figure 1.



$$E = \frac{1}{2}mv^2 = \frac{1}{2} \cdot \frac{h^2}{m\lambda^2} = \frac{h^2}{2m\lambda^2} = \frac{(6.626 \times 10^{-34})^2}{2 \cdot 9.109 \times 10^{-31} \cdot (1.23 \times 10^{-10})^2} = 1.74 \times 10^{-18} \text{ J} = 10.9 \text{ eV}$$

$$\begin{aligned} \text{ii) } \mathbb{E}[x_1] &= \mathbb{E}[x_2] = 1 \\ \mathbb{E}[x_1] &= \mathbb{E}[x_2] = \mathbb{E}[x_1] = 1 \\ \mathbb{E}[x_1] &= \mathbb{E}[x_2] = \mathbb{E}[x_1] = 1 \\ \mathbb{E}[x_1] &= \mathbb{E}[x_2] = \mathbb{E}[x_1] = 1 \\ \mathbb{E}[x_1] &= \mathbb{E}[x_2] = \mathbb{E}[x_1] = 1 \\ \mathbb{E}[x_1] &= \mathbb{E}[x_2] = \mathbb{E}[x_1] = 1 \end{aligned}$$

At this instant a name tagger, a 54-kg sprinter, started a 100-m race. The starting block set a 200-N force with respect to the ground.



$$\begin{aligned} F_1 &= \frac{m_1 g \sin \theta}{1 + \frac{m_1}{m_2}} \\ &= \frac{2 \text{ kg} \cdot 9.8 \text{ m/s}^2 \cdot \sin 30^\circ}{1 + \frac{2 \text{ kg}}{3 \text{ kg}}} \\ &= \frac{9.8 \text{ N}}{1.667} \\ &= 5.88 \text{ N} \end{aligned}$$

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■ **Agencies must consider using their regulated systems**

$$\left. \begin{aligned} W_1 &= 0.50 \text{ m}^3 \\ W_2 &= 0.50 \text{ m}^3 \\ W_3 &= 0.50 \text{ m}^3 \\ W_4 &= 0.50 \text{ m}^3 \end{aligned} \right\} \begin{aligned} W_{\text{total}} &= 2.00 \text{ m}^3 \\ W_{\text{total}} &= 2.00 \text{ m}^3 \end{aligned}$$

$$\left. \begin{aligned} \text{Lsg. } \overline{f_{\text{max}}} &= 0.9474 \text{ (max. } \overline{f_{\text{max}}}) \\ \overline{f} &= 0.5778 \quad \overline{f} = \overline{f_{\text{max}}} \cdot \overline{f_{\text{min}}} \end{aligned} \right\} \begin{aligned} \overline{f_{\text{min}}} &= 0.5778 \\ &= 0.9474 \cdot \overline{f_{\text{min}}} \cdot (0.5778) \\ \overline{f_{\text{min}}} &= 0.5778 \cdot 0.5778 = 0.3339 \end{aligned}$$

Mastering Physics Chapter 9

Katrin Zwirgmaier



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