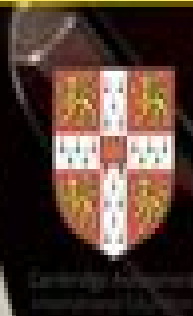


FUNDAMENTAL CONCEPTS OF MOTION, FORCES, AND ENERGY

A photograph of a notebook with handwritten physics calculations, a calculator, and a pencil. The calculations are for problems 20.3, 20.4, and 20.5, involving stress, strain, and Young's modulus.

20.3 $L = 4\text{ m}$; $F = 60\text{ N}$
 $A = \frac{FL}{Y\Delta L} = \frac{(60)(4)}{(7 \times 10^{10})(3 \times 10^{-3})} = 1.14 \times 10^{-6}\text{ m}^2$

20.4 $\Delta L = 5 \times 10^{-4}\text{ m}$; $L = 2\text{ m}$; $A = 2 \times 10^{-6}\text{ m}^2$
 $F = YA \left(\frac{\Delta L}{L} \right) = (72 \times 10^9)(2 \times 10^{-6}) \left(\frac{5 \times 10^{-4}}{2} \right) = 114\text{ N}$

20.5 $L = 3\text{ m}$; $P = 6000\text{ N}$; $A = 8 \times 10^{-5}\text{ m}^2$
Tensión en cada alambre: $F = \frac{P}{2} = 3000\text{ N}$.
Elongación del alambre:
cable
 $\Delta L = \frac{FL}{YA} = \frac{(3 \times 10^3)(3)}{(72 \times 10^9)(8 \times 10^{-5})} = 0.51\text{ mm}$
cable
 $\Delta L = \frac{(3 \times 10^3)(3)}{(72 \times 10^9)(8 \times 10^{-5})} = 0.51\text{ mm}$

Motion Forces And Energy M

George J. Hademenos



Motion Forces And Energy M:

Science Explorer C2009 Book M Student Edition Motion, Forces, and Energy □□□, Prentice Hall, 2007-11 1 Motion 2 Forces 3 Forces in Fluids 4 Work and Machines 5 Energy and Power 6 Thermal Energy and Heat **Glencoe iScience: Motion, Forces, and Energy, Student Edition** McGraw-Hill, 2004-03-23 Motion Forces and Energy as a part of the Glencoe Science 15 Book Series provides students with accurate and comprehensive coverage of forces and Newton's laws The strong content coverage integrates a wide range of hands on experiences critical thinking opportunities and real world applications The modular approach allows you to mix and match books to meet your curricula *The Electrician*, 1880
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