

FUNDAMENTAL CONCEPTS OF MOTION, FORCES, AND ENERGY



UNIVERSITY OF ALBERTA
EDMONTON, ALBERTA
CANADA

$$20.3 \quad L = 4 \text{ m} ; \quad F = 800 \text{ N}$$

$$A = \frac{FL}{4AL} = \frac{(800)(4)}{(72 \times 10^9)(3 \times 10^{-3})} = 1.14 \text{ m}$$

$$20.4 \quad \Delta L = 5 \times 10^{-2} \text{ m} ; \quad L = 2 \text{ m} ; \quad A = 1.14 \text{ m}$$

$$F = 4A(\frac{\Delta L}{L}) = (12 \times 10^9)(3 \times 10^{-3}) \left(\frac{5 \times 10^{-2}}{2} \right) = 112 \text{ N}$$

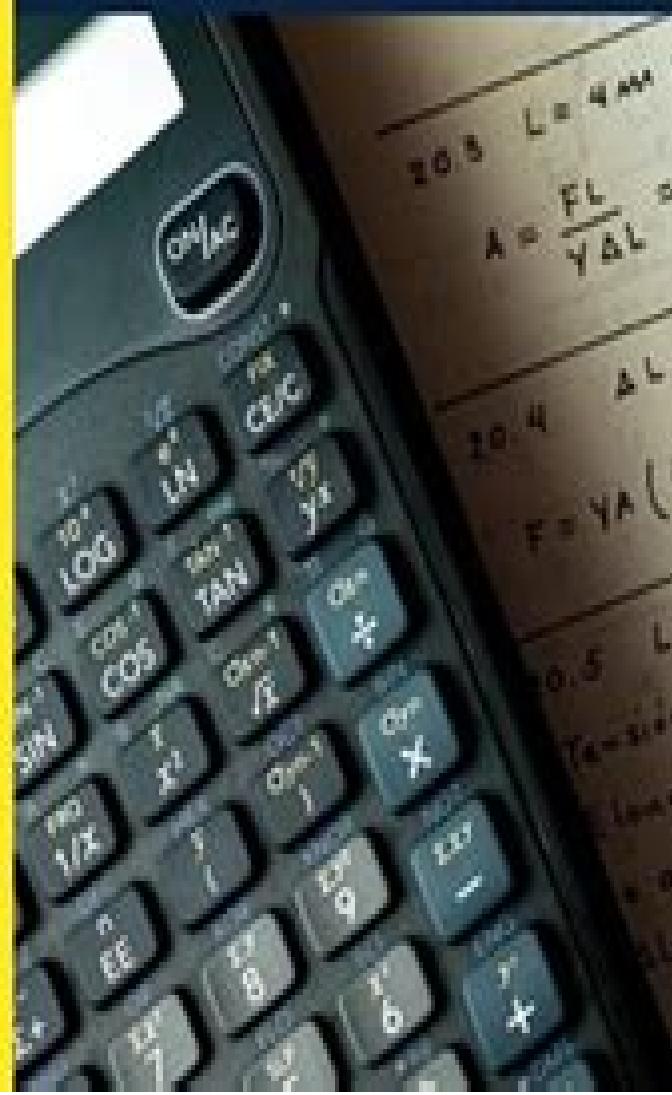
$$20.5 \quad L = 3 \text{ m} ; \quad P = 6000 \text{ N} ; \quad A = 3 \times 10^{-3} \text{ m}^2$$

aplicación en cada alambre ; $F = \frac{P}{A} = \frac{6000}{3 \times 10^{-3}} = 20000 \text{ N}$

longitud del alambre :

$$\Delta L = \frac{FL}{4AL} = \frac{(3000)(1)}{(72 \times 10^9)(3 \times 10^{-3})} = 0.51 \text{ mm}$$

$$\Delta L = \frac{FL}{4AL} = \frac{(3000)(1)}{(72 \times 10^9)(3 \times 10^{-3})} = 0.51 \text{ mm}$$



Motion Forces And Energy M

George J. Hademenos

Motion Forces And Energy M:

Science Explorer C2009 Book M Student Edition Motion, Forces, and Energy 2009, 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

The Electrical Journal, 1910 Victor Von Richter's Text-book of Inorganic Chemistry Ed Victor von Richter, 1903

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