

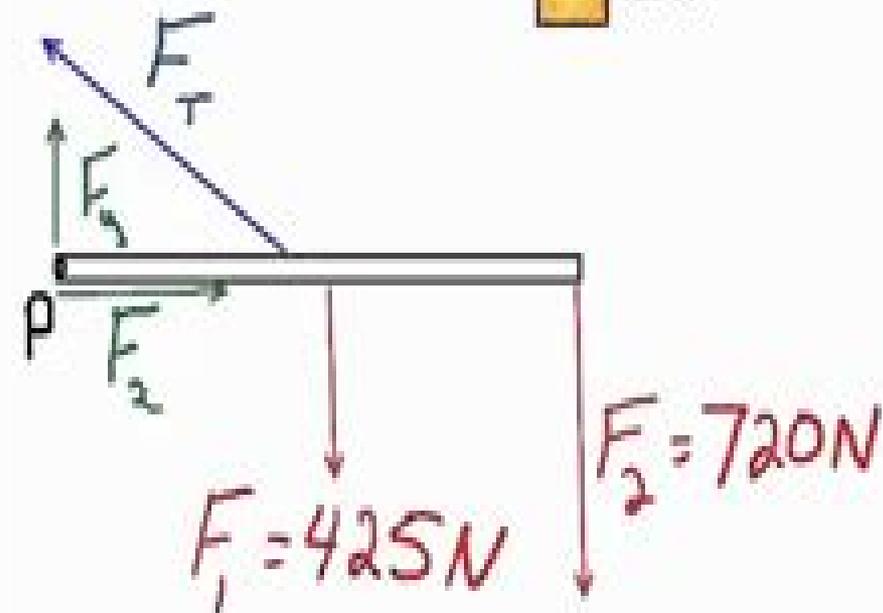
Example 10:

The diagram below shows a uniform beam hinged at P. The force of gravity on the beam is 425 N. Find the tension in the wire.



Static Equil

$$\left\{ \begin{array}{l} F_{\text{net}} = 0 \quad \text{OR} \quad \Sigma \vec{F} = 0 \\ \tau_{\text{net}} = 0 \quad \text{OR} \quad \Sigma \vec{\tau} = 0 \end{array} \right.$$



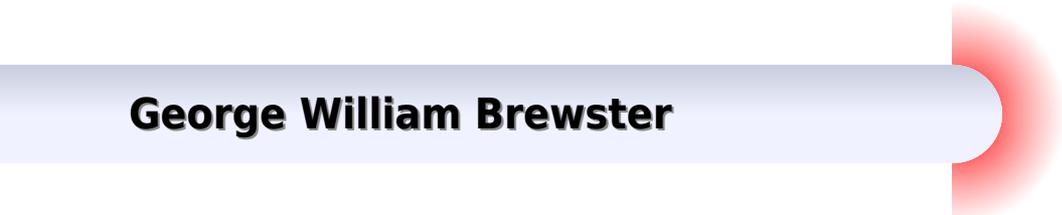
$$\tau = F \times d$$

$$\Sigma \vec{\tau} = 0$$

$$\tau_1 + \tau_2 + -\tau_3 = 0$$

Statics Equilibrium Problem Physics With Solutions

George William Brewster



Statics Equilibrium Problem Physics With Solutions:

Student Solutions Manual for Tipler and Mosca's Physics for Scientists and Engineers, Sixth Edition: Chapters 1-20 Todd Ruskell, 2008 **General Physics and Its Application to Industry and Everyday Life** Ervin Sidney Ferry, 1921 **General Physics and its Application to Industry and Everyday Life** Ervin S. Ferry, 1921 **Physics for Scientists and Engineers with Modern Physics** Ginsberg, 1994-11 **Essential University Physics** Richard Wolfson, 2007

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- Gravity
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- Rotational Motion
- Rotational Vectors and Angular Momentum

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- Oscillatory Motion
- Wave Motion
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- Temperature and Heat
- The Thermal Behavior of Matter
- Heat, Work, and the First Law of Thermodynamics
- The Second Law of Thermodynamics

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Modern Physics Wolfson, 1999 *Applied Mechanics Reviews*, 1948

Study Guide with ActivPhysics Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999 *Canadian Journal of Physics*, 2002 **Engineering Journal**, 1923 *Nature* Sir Norman Lockyer, 1905 **Annual Catalogue** University of Cincinnati, 1922 **Catalogue** University of Cincinnati, 1922 **Proceedings of the 10th Workshop on General Relativity and Gravitation** Misao Sasaki, 2000 **General Chemistry** Thomas Potter McCutcheon, Harry Seltz, 1927

Introduction to Practical Mathematics Vernon Seymour Bryant, 1923 **Commonsense of the Calculus** George William Brewster, 1923 *Journal of the Physical Society of Japan*, 2002 *Precalculus* Raymond A. Barnett, Michael R.

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