

STATICS 2D - # 1

3-5.5. Determine the forces P , F , and T required to keep the triangular frame ABC shown in Fig. P-3-5.5 in equilibrium.

$P = 6330 \text{ lb}$; $F = 722 \text{ lb}$; $T = 5400 \text{ lb}$

Ans.

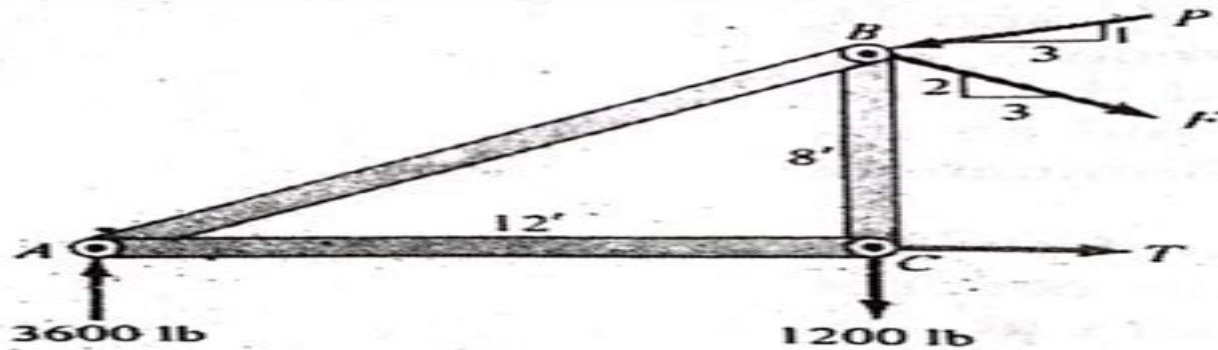


Figure P-3-5.5

STATICS 2D

d)



$$\sum M_B = 0$$

$$3600(12) - T(8) = 0$$

$$T = 5400 \text{ lb}$$

$$\sum F_x = 0$$

$$-P\left(\frac{3}{5}\right) + F\left(\frac{3}{5}\right) + T = 0$$

$$\sum F_y = 0$$

$$-P\left(\frac{4}{5}\right) - F\left(\frac{4}{5}\right) + 3600 - 1200 = 0$$

$$\text{Eq. 1: } -P\left(\frac{3}{5}\right) + F\left(\frac{3}{5}\right) = -5400$$

$$\text{Eq. 2: } -P\left(\frac{4}{5}\right) - F\left(\frac{4}{5}\right) = -2400$$

Simultaneous solving:

$$P = 6324.56 \text{ lb} \approx 6330 \text{ lb}$$

$$F = 721.11 \text{ lb} \approx 722 \text{ lb}$$

$P = ?$
 $F = ?$
 $T = ?$

Physics Statics Problems And Solutions

O García



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Selected Problems of Solid Mechanics and Solving Methods Holm Altenbach, Viacheslav Bogdanov, Alexander Ya. Grigorenko, Roman M. Kushnir, Vladimir M. Nazarenko, Victor A. Eremeyev, 2024-06-04 This book examines new approaches for the estimation of errors in approximate theories Numerical and analytical methods in mechanics often require the establishment of a set of basic equations and various approaches exist to create approximate theories from them The problem is that nobody knows the boundaries of the estimation of errors in approximate theories This book presents new approaches to overcome this problem and to provide the reader with suitable methods for the relevant field including a representation of different scientific schools and different countries These new methods are helping to solve many problems not only in analytical Mechanics but also in Physics Mathematics and Civil Engineering **Applied Mechanics Reviews**, 1967 Solutions of Examples in Elementary Hydrostatics Sir Alfred William Flux, 1891 Solutions [by sir A. W. Flux] of examples in Elementary hydrostatics, by W. H. Besant sir Alfred William Flux, 1893 **Conceptual Geometry of Straight Line** Chandra Shekhar Kumar, 2018-03-25 This work contains conceptual solutions to the problems and exercises given in Chapters I VI Covering Straight Line of S L Loney s Co ordinate Geometry including variations of problems solutions methods and approaches These solutions strengthen and enliven the inherent multi concepts to enrich the heritage set forth by S L Loney The present work will serve as a complete guide to private students reading the subject with few or no opportunities of instruction This will save the time and lighten the work of Teachers as well This book helps in acquiring a better understanding of the basic principles of Straight Line Co ordinate Geometry and in revising a large amount of the subject matter quickly Care has been taken as in the forthcoming ones to present the solutions with multi concepts and beyond in a simple natural manner in order to meet the difficulties which are most likely to arise and to render the work intelligible and instructive **Engineering Fundamentals** James Warner Morrison, 1978 An Attempt Towards a Chemical Conception of the Ether by Professor D. Mendeléeff Dmitry Ivanovich Mendeleev, 1904 Solutions (by ... A.W. Flux) of Examples in Elementary Hydrostatics William Henry Besant, 1891 Study Guide with ActivPhysics Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999 *Conceptual Trigonometry Part I* Chandra Shekhar Kumar, 2018-07-23 This work contains conceptual solutions to the problems and exercises given in the text book of Plane Trigonometry by S L Loney s including variations of problems solutions methods and approaches These solutions strengthen and enliven the inherent multi concepts to enrich the heritage set forth by S L Loney The present work will serve as a complete guide to private students reading the subject with few or no opportunities of instruction This will save the time and lighten the work of Teachers as well This book helps in acquiring a better understanding of the basic principles of Plane Trigonometry and in revising a large amount of the subject matter quickly Care has been taken as in the forthcoming ones to present the solutions with multi concepts and beyond in a simple natural manner in order to meet the difficulties which are most likely to arise and to render the work

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