

2-15.

The plate is subjected to the two forces at A and B as shown. If $\theta = 60^\circ$, determine the magnitude of the resultant of these two forces and its direction measured clockwise from the horizontal.

SOLUTION

Parallelogram Law: The parallelogram law of addition is shown in Fig. a .

Trigonometry: Using law of cosines (Fig. b), we have

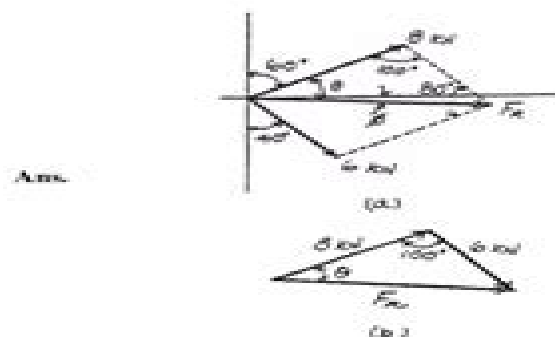
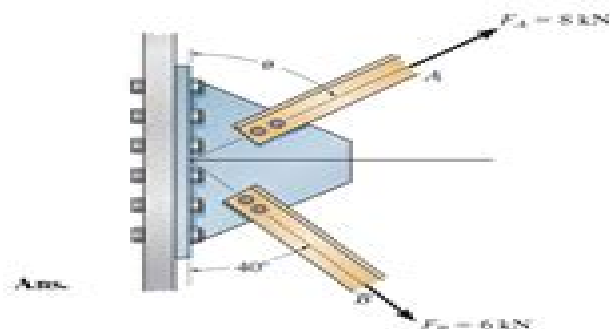
$$\begin{aligned} F_R &= \sqrt{8^2 + 6^2 - 2(8)(6) \cos 100^\circ} \\ &= 10.80 \text{ kN} = 10.8 \text{ kN} \end{aligned}$$

The angle θ can be determined using law of sines (Fig. b).

$$\begin{aligned} \frac{\sin \theta}{6} &= \frac{\sin 100^\circ}{10.80} \\ \sin \theta &= 0.5470 \\ \theta &= 33.16^\circ \end{aligned}$$

Thus, the direction ϕ of F_R measured from the x axis is

$$\phi = 33.16^\circ - 30^\circ = 3.16^\circ$$



Mechanic Of Material Riley Manual

Daniela Niemeyer



Mechanic Of Material Riley Manual:

Solution Manual to Statics and Mechanics of Materials an Integrated Approach (Second Edition) , This book is the solution manual to Statics and Mechanics of Materials an Integrated Approach Second Edition which is written by below persons William F Riley Leroy D Sturges Don H Morris **Springer Handbook of Experimental Solid Mechanics** William N. Sharpe, Jr., William N. Sharpe, 2008-12-04 The Springer Handbook of Experimental Solid Mechanics documents both the traditional techniques as well as the new methods for experimental studies of materials components and structures The emergence of new materials and new disciplines together with the escalating use of on and off line computers for rapid data processing and the combined use of experimental and numerical techniques have greatly expanded the capabilities of experimental mechanics New exciting topics are included on biological materials MEMS and NEMS nanoindentation digital photomechanics photoacoustic characterization and atomic force microscopy in experimental solid mechanics Presenting complete instructions to various areas of experimental solid mechanics guidance to detailed expositions in important references and a description of state of the art applications in important technical areas this thoroughly revised and updated edition is an excellent reference to a widespread academic industrial and professional engineering audience Solutions manual to accompany introduction to mechanics of materials William Franklin Riley, Loren W. Zachary, 1989 Mechanics of Materials Francis Reynolds Shanley, 1967 **Free-hand Perspective** Victor Tyson Wilson, 1900 *Laboratory Manual for the Use of Students in Testing Materials of Construction* Leslie Abram Waterbury, 1912 **The Orientation of Buildings or Planning for Sunlight** William Atkinson, 1912 **The Subways and Tunnels of New York** G.H. Gilbert, L.I. Whiteman, 1912 Small Hospitals. Establishment and Maintenance Alfred Worcester, 1894 Small Hospitals Establishment and Maintenance by William Atkinson Alfred Worcester first published in 1894 is a rare manuscript the original residing in one of the great libraries of the world This book is a reproduction of that original which has been scanned and cleaned by state of the art publishing tools for better readability and enhanced appreciation Restoration Editors mission is to bring long out of print manuscripts back to life Some smudges annotations or unclear text may still exist due to permanent damage to the original work We believe the literary significance of the text justifies offering this reproduction allowing a new generation to appreciate it Popular Mechanics , 1952-12 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **The Pressure, Strain and Force Handbook** Omega Engineering, Inc, 1992 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1978 A Manual of Practical Assaying Howard Van Fleet Furman, 1910 *A Text-book on Roofs and Bridges* Mansfield Merriman, Henry Sylvester Jacoby, 1912 **Higher English** Chambers (Publishers), 1911 Nephritis Martin Fischer, 1911 **Methods in Chemical Analysis** , 1912 This antiquarian volume contains a complete

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