

1-6

From an overall free-body diagram, the equations of equilibrium

$$\rightarrow \Sigma F_x = 0: \quad A_x = 0$$

$$\uparrow \Sigma F_y = 0: \quad A_y - 10 - 15 + N_F = 0$$

$$\circlearrowleft \Sigma M_A = 0: \quad 9N_F - 3(10) - 6(15) = 0$$

are solved to get

$$A_x = 0 \text{ kN}$$

$$A_y = 11.6667 \text{ kN } \uparrow$$

$$N_F = 13.3333 \text{ kN } \uparrow$$

Then, from a free-body diagram of the right hand section of the truss, the equations of equilibrium

$$\circlearrowleft \Sigma M_C = 0: \quad 3(13.3333) - 3T_{DE} = 0$$

$$\circlearrowleft \Sigma M_D = 0: \quad 3T_{BC} - 3(15) + 6(13.3333) = 0$$

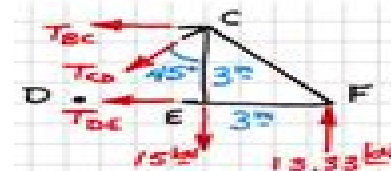
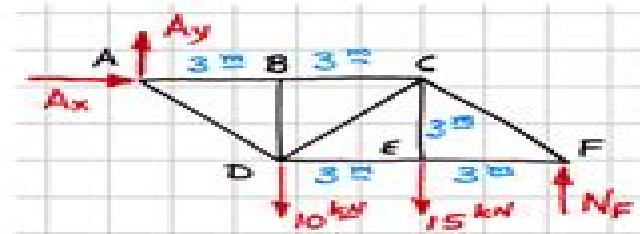
$$\uparrow \Sigma F_y = 0: \quad 13.3333 - 15 - T_{CD} \cos 45^\circ = 0$$

are solved to get

$$T_{DE} = 13.33 \text{ kN (T)} \quad \text{Ans.}$$

$$T_{BC} = -11.67 \text{ kN} = 11.67 \text{ kN (C)} \quad \text{Ans.}$$

$$T_{CD} = -2.36 \text{ kN} = 2.36 \text{ kN (C)} \quad \text{Ans.}$$



Solution Manual For Statics Mechanics Of Materials Riley

R. C. Hibbeler, S. C. Fan



Solution Manual For Statics Mechanics Of Materials Riley:

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 **Statics and Mechanics of Materials** William F. Riley, Leroy D. Sturges, Don H. Morris, 2001-10-30 The second edition of Statics and Mechanics of Materials An Integrated Approach continues to present students with an emphasis on the fundamental principles with numerous applications to demonstrate and develop logical orderly methods of procedure Furthermore the authors have taken measure to ensure clarity of the material for the student Instead of deriving numerous formulas for all types of problems the authors stress the use of free body diagrams and the equations of equilibrium together with the geometry of the deformed body and the observed relations between stress and strain for the analysis of the force system action of a body **Solutions manual to accompany introduction to mechanics of materials** William Franklin Riley, Loren W. Zachary, 1989 **Solutions Manual [to Accompany]** R. C. Hibbeler, S. C. Fan, 2005 **Engineering Mechanics of Materials** B.B. Muvdi, J.W. McNabb, 2012-12-06

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