

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

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

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

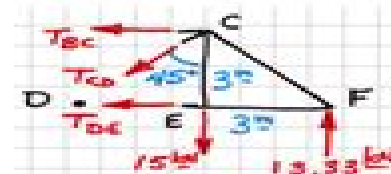
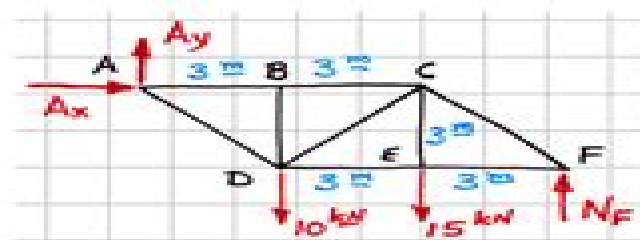
$$\uparrow \Sigma F_y = 0: \quad 13.3333 - 15 - T_{CD} \cos 45^\circ = 0$$

are solved to get

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

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

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



Statics Solution Manual Second Edition Riley Sturges

Lei Huang



Statics Solution Manual Second Edition Riley Sturges:

Statics Solution Manual Second Edition Riley Sturges Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Statics Solution Manual Second Edition Riley Sturges**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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