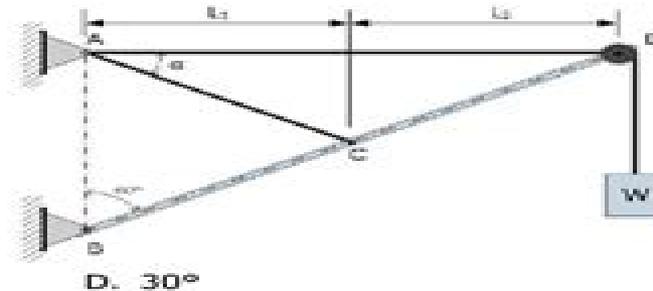


**STRUCTURAL ENGINEERING & CONSTRUCTION  
(NOVEMBER 2011)**

**Situation 1** – A load of  $W = 30 \text{ kN}$  is lifted through a boom  $BCD$  as shown in the figure. The boom makes an angle of  $60^\circ$  with the vertical. Neglect the weight of the boom and for this problem,  $L_1 = L_2 = 2 \text{ m}$ . The pulley at  $D$  is frictionless.



1. Determine the angle  $\alpha$ .  
 A.  $40^\circ$   
 B.  $35^\circ$   
 C.  $45^\circ$
2. What is the tension in cable  $AC$  in  $\text{kN}$ ?  
 A. 51.96  
 B. 25.36  
 C. 34.89  
 D. 43.21
3. What is the total reaction at  $B$  in  $\text{kN}$ ?  
 A. 54.77  
 B. 43.21  
 C. 17.32  
 D. 51.96

**Situation 2** – The strut shown in the figure carries an axial load of  $P = 148 \text{ kN}$ .



4. Determine the bearing stress between the pin and the strut:  
 A. 463 MPa  
 B. 345 MPa  
 C. 285 MPa  
 D. 563 MPa
5. Determine the shearing stress in the pin.  
 A. 286 MPa  
 B. 368 MPa  
 C. 321 MPa  
 D. 341 MPa

# Civil Engineering Practice Problems

**Indranil Goswami**



## **Civil Engineering Practice Problems:**

## Unveiling the Magic of Words: A Overview of "**Civil Engineering Practice Problems**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Civil Engineering Practice Problems**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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