

## CHAPTER TWO

### PROB # 2.1

$$I_g = \frac{1}{12} b h^3 = \left(\frac{1}{12}\right)(12)(21)^3 = 9261 \text{ in.}^4$$

$$f_r = \text{modulus of rupture} = 7.5 \sqrt{f'_c} = 7.5 \sqrt{4000} \\ = 474 \text{ psi}$$

$$M_{cr} = \frac{f_r I_g}{y_t} = \frac{(474)(9261)}{10.5} = 418,068 \text{ in. lbs} \\ = \boxed{24.8 \text{ ft-k}} \quad \checkmark \text{ gcm}$$

### PROB # 2.2

$$I_g = \left(\frac{1}{12}\right)(14)(21)^3 = 10,805 \text{ in.}^4$$

$$f_r = 7.5 \sqrt{4000} = 474 \text{ psi}$$

$$M_{cr} = \frac{(474)(10805)}{10.5} = 487,796 \text{ in. lbs} \\ = \boxed{40.7 \text{ ft-k}} \quad \checkmark \text{ gcm}$$

# **Solution Manual Of Digital Fundamentals 9th Edition**

**Jiyuan Zhang**



## **Solution Manual Of Digital Fundamentals 9th Edition:**

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<http://www.frostbox.com/files/detail/fetch.php/Tequila%20Mockingbird%20Cocktails%20With%20A%20Literary%20Twist.pdf>

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