

# Solution Manual for Machine Elements in Mechanical Design 5th Edition by Mott

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## CHAPTER 1 THE NATURE OF MECHANICAL DESIGN

Problems 1 - 14 require the specification of functions and design requirements for design projects and have no unique solution.

15.  $D = 1.75 \text{ in} \times 25.4 \text{ mm/in} = \underline{44.5 \text{ mm}}$
16.  $L = 46 \text{ ft} \times 0.3048 \text{ m/ft} = \underline{14.0 \text{ m}}$
17.  $T = 12,550 \text{ lb-in} \times 0.1130 \text{ N-m/lb-in} = \underline{1418 \text{ N-m}}$
18.  $A = 4.12 \text{ in}^2 \times 645.2 \text{ mm}^2/\text{in}^2 = \underline{2658 \text{ mm}^2}$
19.  $Z = 14.8 \text{ in}^3 \times 1.639 \times 10^6 \text{ mm}^3/\text{in}^3 = \underline{2.43 \times 10^6 \text{ mm}^3}$
20.  $I = 88.0 \text{ in}^4 \times 4.162 \times 10^6 \text{ mm}^4/\text{in}^4 = \underline{3.66 \times 10^7 \text{ mm}^4}$
21. GIVEN  $A_{\text{all}} = 750 \text{ mm}^2$ ; IN P.S. DRIVEN:  $A_{\text{all}} = 4162 \text{ in}^2$   
 APP. 15-1:  $L = 12.19 \text{ m}$ ,  $A = 1.86 \text{ m}^2 = 870 \text{ mm}^2$   
 APP. 15-3: ANGLES 37.480° & 52.519° MAKE  $A = 867 \text{ mm}^2$
22.  $P = 7.5 \text{ hp} \times 745.7 \text{ W/hp} = \underline{5.59 \times 10^3 \text{ W} = 5.59 \text{ kW}}$
23.  $S_e = 127 \text{ ksi} \times 6.895 \text{ MPa/ksi} = \underline{876 \text{ MPa}}$
24. LET  $D = 0.035 \text{ m}$ ;  $L = 0.475 \text{ m}$ ; VOLUME  $= V = A \cdot L \cdot (70\%) = L$   
 $V = \frac{\pi (0.035 \text{ m})^2}{4} \cdot 0.475 \text{ m} = 6.49 \times 10^{-4} \text{ m}^3$   
 MASS  $= \text{DENSITY} \cdot V = 7680 \text{ kg/m}^3 \cdot 6.49 \times 10^{-4} \text{ m}^3 = 4.98 \text{ kg}$   
 WEIGHT  $= m \cdot g = 4.98 \text{ kg} \cdot 9.81 \text{ m/s}^2 = 48.9 \text{ kg-m/s}^2 = \underline{48.9 \text{ N}}$

# Machine Elements In Mechanical Design 5th Edition Solution Manual

**Minjie Lin**



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