

# 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 0.5 OR 1%:  $A_{\text{ALL}} = 1.162 \text{ in}^2$   
 APP. 15.1:  $L = 12.5 \text{ ft}$ ;  $A = 1.86 \text{ in}^2 = 890 \text{ mm}^2$   
 APP. 15.3: ANGLES 57 AND 46 AND 75.75 AS HAVE  $A = 867 \text{ mm}^2$
22.  $P = 7.5 \text{ hp} \times 745.7 \text{ W/hp} = 5.59 \times 10^3 \text{ W} = \underline{5.59 \text{ kW}}$
23.  $S_u = 127 \text{ ksi} \times 6.895 \text{ MPa/ksi} = \underline{876 \text{ MPa}}$
24. LET  $D = 0.035 \text{ m}$ ;  $L = 0.675 \text{ m}$ ;  $V_{\text{CROSS}} = V = A \cdot L \cdot (100\%) = L$   
 $V = \frac{\pi (0.035 \text{ m})^2}{4} \times 0.675 \text{ m} = 6.49 \times 10^{-4} \text{ m}^3$   
 $\text{MASS} = \text{DENSITY} \times V = 7680 \text{ kg/m}^3 \times 6.49 \times 10^{-4} \text{ m}^3 = 4.98 \text{ kg}$   
 $\text{WEIGHT} = m \cdot g = 4.98 \text{ kg} \cdot 9.81 \text{ m/s}^2 = 48.9 \text{ kg-m/s}^2 = \underline{48.9 \text{ N}}$

# Mott Design Solution Manual

**Robert L. Mott, Joseph A. Untener**



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