

# 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 0.5.0 WITH:  $A_{\text{HLL}} = 1.162 \text{ in}^2$   
 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  $D = 0.035 \text{ m}$ ;  $L = 0.675 \text{ m}$ ;  $V_{\text{CULMS}} = V = A \cdot L \cdot (70\%) \cdot L$   
 $V = \frac{\pi (0.035 \text{ m})^2}{4} \cdot 0.675 \text{ m} = 6.49 \times 10^{-4} \text{ m}^3$   
 $\text{MASS} = \text{DENSITY} \cdot V = 7680 \text{ kg/m}^3 \cdot 6.49 \times 10^{-4} \text{ m}^3 = 4.98 \text{ kg}$   
 $\text{WEIGHT} = m \cdot g = 4.98 \text{ kg} \cdot 9.81 \text{ m/s}^2 = 48.9 \text{ kg-m/s}^2 = \underline{48.9 \text{ N}}$

# Machine Design Creamer Solution Manual

**RC Schank**



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**Machine Design** Robert H. Creamer,1984-01-01      Proceedings American Society for Engineering Education. Conference,1994      Junior College Journal Walter Crosby Eells,1967 Includes Junior college directory formerly Directory of the junior college 1931 1945      **Annual Conference Proceedings** American Society for Engineering Education. Conference,1994      Computers in Education Journal ,1993      **Books in Series** ,1979      The British National Bibliography Cumulated Subject Catalogue ,1968      *The Publishers' Trade List Annual* ,1985      *The British National Bibliography* Arthur James Wells,1968      Forthcoming Books Rose Arny,2003      **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office,1978      *Catalog of Copyright Entries, Fourth Series* Library of Congress. Copyright Office,1978

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*Library Journal* Melvil Dewey,Richard Rogers Bowker,L. Pylodet,Charles Ammi Cutter,Bertine Emma Weston,Karl Brown,Helen E. Wessells,1951 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Issued also separately      **Safety** ,1952      SA Mining ,2004-05

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