

Answer Tutorial 9 - Chapter 3: Mechanics of material

Problem No.	Answers	Problem No.	Answer
01	a) c_{CE} 14.68 mm (Radius of shaft CDE) b) c_{FH} = 10.63 mm	04	22.mm (based on maximum permissible shear stress) 31.4 mm (based on maximum possible twist of CD) (Ans)
02	a) τ_{AB} = 55 MPa b) τ_{CD} = 45.3 Mpa c) τ_{EF} = 47.7 MPa	05	a) τ_{AB} = 11.8 MPa b) τ_{CD} = 11.2 MPa
03	$TL[\frac{1}{J_{BE}C_{BE}} + \frac{4}{J_{AD}C_{AD}}]$		