

Question 1

1.1 A cylindrical shaft of length 100 mm and diameter 20 mm is subjected to a torque of 1000 Nm. The shaft is fixed at one end and free at the other.

Given: Length of shaft, $L = 100 \text{ mm}$
Diameter of shaft, $\phi = 20 \text{ mm}$
Torque applied, $T = 1000 \text{ Nm}$

Find: (i) Maximum shear stress in the shaft.
(ii) Angle of twist in degrees.

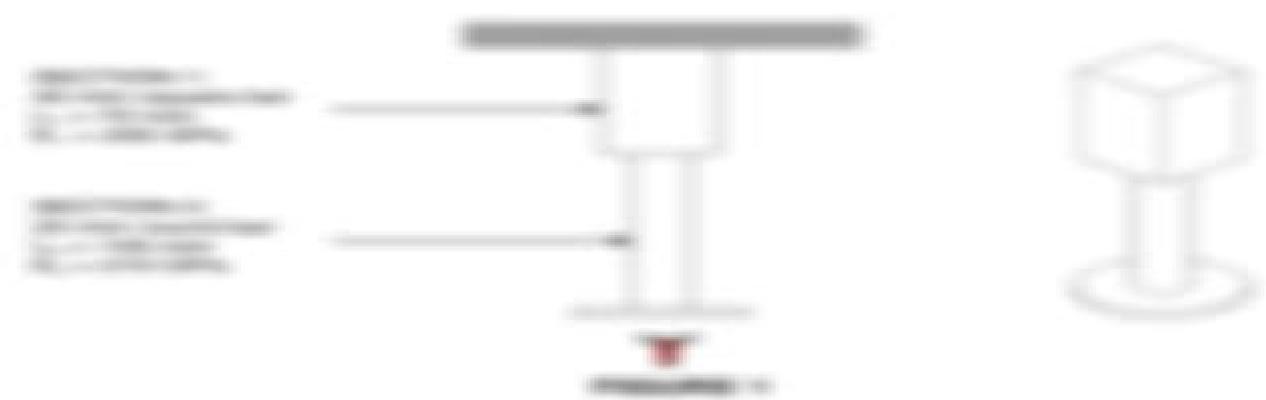
Solution:

- 1.1.1 Draw the stress distribution diagram according to an appropriate scale.
- 1.1.2 Calculate the average modulus of rigidity.
- 1.1.3 Calculate the maximum shear stress.
- 1.1.4 Calculate the percentage change in length.

Marking Scheme

Question 2

2.1 A cylindrical shaft of length 100 mm and diameter 20 mm is subjected to a torque of 1000 Nm. The shaft is fixed at one end and free at the other. The material of the shaft has a modulus of rigidity of 80 GPa.



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