

Question 1

1.1 A cylindrical shaft of length l and diameter d is subjected to a torque T at one end. The other end is fixed. The shaft is made of a material having a shear modulus G and a coefficient of thermal expansion α . The shaft is subjected to a uniform temperature rise ΔT .

$$\theta = \frac{TL}{GJ} + \alpha \Delta T L$$

- 1.1.1 The length of the shaft is l .
- 1.1.2 The diameter of the shaft is d .
- 1.1.3 The torque applied is T .
- 1.1.4 The shear modulus is G .
- 1.1.5 The coefficient of thermal expansion is α .
- 1.1.6 The temperature rise is ΔT .

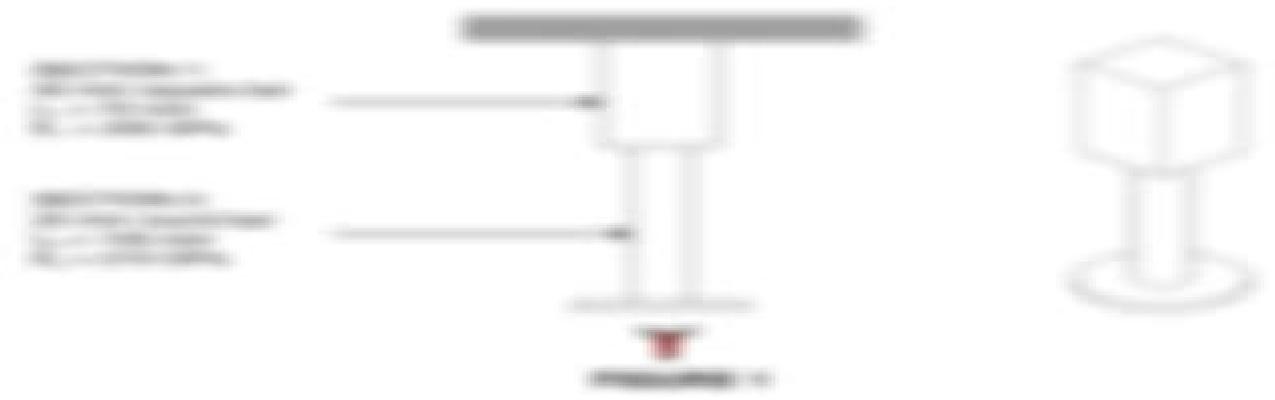
Derive the following equation:

- 1.1.1 The total angle of twist θ according to an approximate value.
- 1.1.2 Calculate the change in volume of the shaft.
- 1.1.3 Calculate the maximum shear stress.
- 1.1.4 Calculate the percentage change in length.

Marking Scheme: 10

Question 2

2.1 A cylindrical shaft of length l and diameter d is fixed at one end and free at the other. The shaft is subjected to a torque T at the free end. The shaft is made of a material having a shear modulus G and a coefficient of thermal expansion α . The shaft is subjected to a uniform temperature rise ΔT .



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