

$$k_{t_2} = \frac{\pi (26 \times 10^3)}{32 (5)} (0.15^4 - 0.05^4) = 0.255255 \times 10^6 \text{ N-m/rad}$$

$$k_{eq} = k_{t_1} + k_{t_2} = 5.34072 \times 10^6 + 0.255255 \times 10^6 = 5.595975 \times 10^6 \text{ N-m/rad}$$


---

1.25 For Helical spring  $k = \frac{G d^4}{64 n R^3}$

Spring 1:  $k_1 = \frac{(82 \times 10^9) (5 \times 10^{-2})^4}{(64) (10) (15 \times 10^{-2})^3} = 237.2685 \text{ kN/m}$

Spring 2:  $k_2 = \frac{(27 \times 10^9) (2.5 \times 10^{-2})^4}{(64) (10) (12.5 \times 10^{-2})^3} = 8.4375 \text{ kN/m}$

(a) Spring 2 inside spring 1 (parallel):  $k_{eq} = k_1 + k_2 = 245,706.0 \text{ N/m}$

(b) Spring 2 on top of spring 1 (series):

$$\frac{1}{k_{eq}} = \frac{1}{k_1} + \frac{1}{k_2} = \frac{k_2 + k_1}{k_1 k_2}$$

which gives  $k_{eq} = 8147.76 \text{ N/m}$

---

1.26 For a helical spring,  $k = \frac{G d^4}{64 n R^3}$

$k_1 = \frac{(82 \times 10^9) (2.5 \times 10^{-2})^4}{(64) (10) (15 \times 10^{-2})^3} = 14,829.28 \text{ N/m}$

$k_2 = \frac{(27 \times 10^9) (1.25 \times 10^{-2})^4}{64 (10) (12.5 \times 10^{-2})^3} = 527.34 \text{ N/m}$

(a) Spring 2 inside spring 1:  $k_{eq} = k_1 + k_2 = 15,356.63 \text{ N/m}$

(b) Spring 2 on top of spring 1:  $\frac{1}{k_{eq}} = \frac{1}{k_1} + \frac{1}{k_2}$

or  $k_{eq} = \frac{k_1 k_2}{k_1 + k_2} = \frac{(14,829.28) (527.34)}{14,829.28 + 527.34} = 509.23 \text{ N/m}$

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# Solution Manual Rao

**Y. V. C. Rao**



## **Solution Manual Rao:**

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