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The theoretical vibration analysis shows, that for a static eccentricity of 5% of the air gap, which is a common value for these types of motors, and for considering worst case boundary conditions regarding the amplitude of the oscillating magnetic force – no field damping effects, maximum homopolar flux, etc. – and for considering worst case regarding the direction of the oscillating magnetic force, the maximum relative shaft vibrations in the sleeve bearings are 18.92  $\mu\text{m}$  (peak to peak ...

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natural frequency of vibration of the shaft in (a) axial vibration, and (b) torsional vibration. Data:  $d = 5 \text{ cm}$ ,  $l = 1 \text{ m}$ ,  $m = 100 \text{ kg}$ ,  $J_0 = 10 \text{ kg-m}^2$ . Figure P8.6

*MECH4305 Fundamental and Advanced Vibration Analysis*

Vibration analysis advanced level This course is recommended for analysts who wish to study vibration analysis techniques and applications, as well as maintenance leaders and reliability engineers. Some experience in vibration analysis is recommended.

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