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(57) Abstract :
 Fluid film bearings are used in heavy machinery for supporting loads which are subjected to either static or dynamic. Due to this load the rotating shafts centres move away from the centre of the bearing. Due to this deviation of the journal axis from the bearing centre eccentricity is developed. This pulls the journal near to the bearing surface by decreasing the film thickness between the journal and bearing during relative motion. The film pressure is increased to an edge, which leads to vibrations of the journal. The uneven pressure distribution can be reduced by dividing the projected area of the bearing into lobes. These lobes create film pressure which supports the journal during loading. In this paper three lobe journal bearing characteristics have been investigated for different eccentricity ratios. The journal trajectory is plotted for eccentricity ratio considered from the experimental investigation. The effect of eccentricity ratio on the journal centre trajectory is studied.

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