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Product Name :
Hydrodynamic Behavior

Product Code :
LBNY-0005-1010007



Description :

Hydrodynamic lubrication occurs in roller bearings, gear wheels and cam followers, whose contact surfaces are subjected to high loads. The theory of hydrodynamics takes into consideration the elastic deformation of the bodies in contact with each other and provides a basis for calculating the influence of lubrication on damage to gears and roller bearings. These surfaces are elastically deformed because of high contact pressures.

Features:

Investigation of the thickness and shape of the lubricating film
Hydrodynamic behaviour between the sphere and rotating-glass-plate friction pair.

Learning Objectives And Experiments:

Study the effect of load and speed on the thickness of the lubricating film
Together with the drive unit
Determine the thickness of the lubricating film at the contact point of a sphere with a plane surface compare with theoretical value.

Technical Specification :

Hydrodynamic Behavior

Laboratory Instrument India

