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Product Name :
Experimental Module Optical Elastohydrodynamics

Product Code :
LBNY-0005-10100058



Description :

A steel sphere is pressed against the underside of a driven glass disc. The light from a reflected light microscope passes through the glass disc and the film of oil at the point of contact, It is then reflected from the surface of the steel sphere. The set-up is operated together with the basic module. The microscope is fitted to an adjustable x-y slide and has a focus adjustment. The thickness of the film of lubricant is determined visually from the colours of the interference rings produced.

Technical Specification :

Film thickness measured using optical interference
Elastohydrodynamic behaviour of a film of lubricant between a sphere and a disc
Sphere: 25.4mm diam., steel, hardened, polished
Force measurement: 0...50N using strain gauge transducers
Glass disc: 150mm diameter, ground, Coating: BK 7, dielectric, R=30%
Microscope magnification: 50-times
l x w x h 300x250x550mm.



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