

Low Reynolds number Flow

1

Plane Lubrication Films

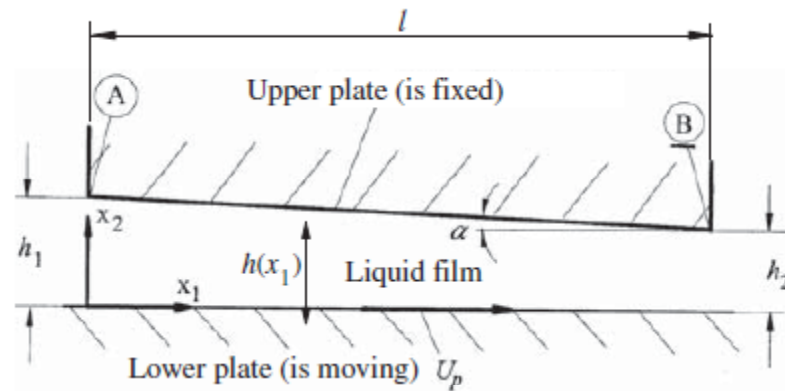


Figure: Fluid flow between two plates (basic flow of tribology).

U_p = velocity of the moving lower plate;
 α = inclination angle between the plates;
 $h(x_1)$ = variation of plate distance

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2

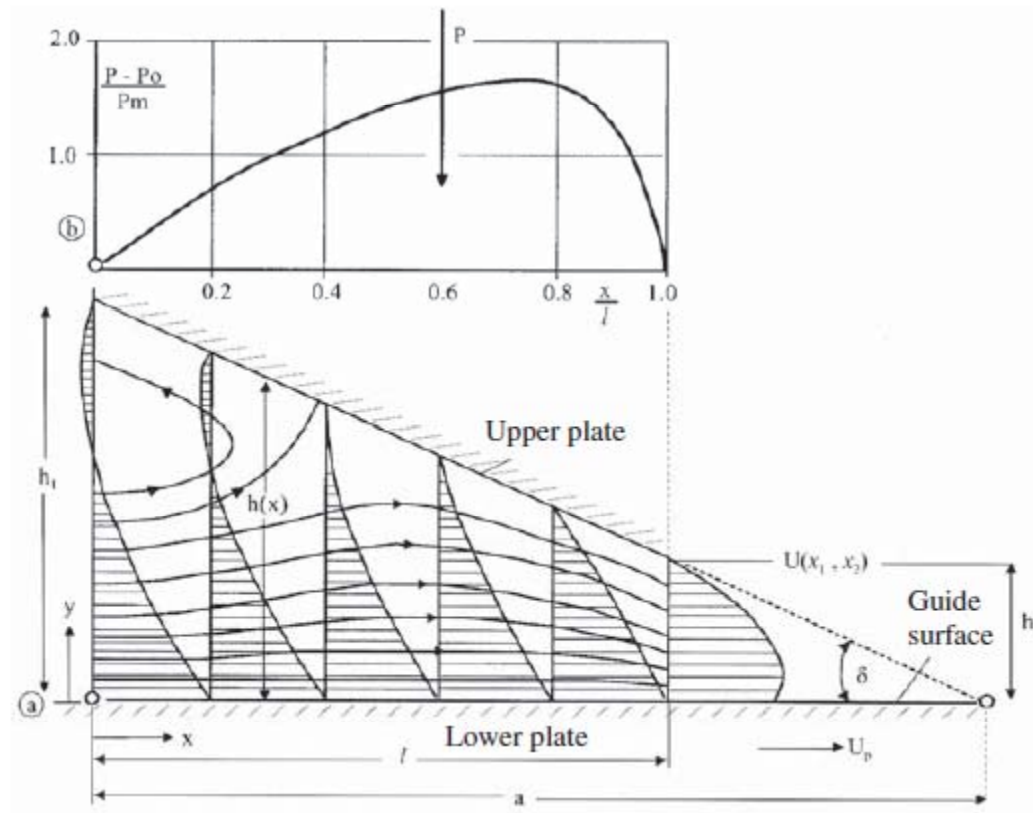


Figure: Flow lines and velocity profile in a slide-bearing flow