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the lift equation states that lift l is equal to the lift coefficient c_l times the density ρ times half of the velocity v squared times the wing area a $l = c_l \rho v^2 / 2 a$ a flow conditions for given air conditions shape and inclination of the object we have to determine a value for c_l to determine the lift the lift equation is a mathematical representation which can be used to properly measure an aircraft's lifting capabilities the lift generated by an aircraft depends on a number of factors that are listed below air density velocity between the air and the object compressibility and viscosity of air the surface area of the wing of the chapter 5 theory of airfoil lift aerodynamics airfoil theory is largely governed by potential flow theory specifically a key component of airfoil aerodynamics theory is the combination of free stream velocity elementary flow line vortex model elementary flow overview lift is defined as the component of the aerodynamic force that is perpendicular to the flow direction and drag is the component that is parallel to the flow direction a fluid flowing around the surface of a solid object applies a force on it key takeaways the lift exerted on the wing can be explained in terms of the wing curvature flow velocity fluid density and angle of attack this pressure difference is created by air flowing across the surfaces of the wing where a greater velocity denser fluid or both will create greater lift as angle of attack increases lift generally dimensional analysis physical parameters a large number of physical parameters determine aerodynamic forces and moments specifically the following parameters are involved in the production of lift parameter symbol units lift per span l mt^2 angle of attack freestream velocity α v l 1 freestream density freestream viscosity abstract the lift force on a circular particle in plane poiseuille flow is studied by direct numerical simulation and by explicit mathematical analysis of a long particle model the model leads to a formula for the particle velocity that is in excellent agreement with simulation values for the circular cylinder the lift force on a circular particle in plane poiseuille flow perpendicular to gravity is studied by direct numerical simulation the angular slip velocity Ω $\Omega = 1 - \frac{1}{2} \gamma^2$ where $\frac{1}{2} \gamma^2$ is the angular velocity of the fluid at a point where the shear rate is γ and Ω is the angular velocity of the particle is always positive at an scissor lift velocity analysis machines and mechanisms 2005 david h myszka provides the techniques necessary to study the motion of machines and emphasizes the application of kinematic theories to real world machines consistent with the philosophy of engineering and technology programs in fluid dynamics the lift coefficient c_l is a dimensionless quantity that relates the lift generated by a lifting

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