

Flight Theory And Aerodynamics

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have on the performance characteristics of aircraft.

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Lift and drag increase exponentially with speed—if speed is doubled, drag or lift will be quadrupled. In contrast the relationship between lift or drag and air density is a direct relationship such that an increase or decrease in air density will cause an increase or decrease in both drag and lift.

Aerodynamics and Theory of Flight, Forces of Flight, Lift

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Newton's Theory of Flight . Isaac Newton did not propose a theory of flight but he did provide Newton's Laws of Motion the physical laws which can be used to explain aerodynamic lift. Newton's Second Law states that: The force on an object is equal to its mass times its acceleration or equivalently to its rate of change of momentum; $F = M a = d/dt (M v)$

Aerodynamic Lift and Drag and the Theory of Flight

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