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Flight Theory And Aerodynamics

The Aerodynamics of Flight

2. Airplane AerodynamicsPrivate

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Designed for the student with little engineering or mathematical background, the book outlines the basic principles of aerodynamics and

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governing the forces acting on an aircraft in flight, and what effect these natural laws and forces have on the performance characteristics of aircraft.

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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.

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**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;
 $F = M a = d/dt (M v)$**

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Aerodynamic Lift and Drag and the Theory of Flight
Forces of Flight Lift. Artificial forces manipulated by pilot. Generated through the wings. Acts perpendicular to the relative wind and wingspan. Lift

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is exerted through the centre of pressure. Opposes weight: during level cruise, lift equals weight; during climb, lift is greater than weight; and during descent, weight is greater than lift. Weight

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**Lift is an artificial force
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generated through the wings, acts perpendicular to the relative wind and wingspan. The theoretical concept that summarizes the direction and force of lift is the centre of pressure.

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characteristics of aircraft.

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Newton's Theory of Flight . Isaac
Newton did not propose a theory
of flight but he did provide**

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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

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**its rate of change of momentum;
 $F = M a = d/dt (M v)$**

**Aerodynamic Lift and Drag and
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Forces of Flight Lift. Artificial
forces manipulated by pilot.**

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Generated through the wings. Acts perpendicular to the relative wind and wingspan. Lift is exerted through the centre of pressure. Opposes weight: during level cruise, lift equals weight; during climb, lift is

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greater than weight; and during descent, weight is greater than lift. Weight

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Lift is an artificial force manipulated by pilot; it is generated through the wings, acts perpendicular to the relative wind and wingspan. The theoretical concept that

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summarizes the direction and force of lift is the centre of pressure.

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