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zero thickness blades
support the thrust force
generated by the rotation of
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Before talking about the aerodynamics of helicopters we first have to introduce a few basic principles of aerodynamics. In order to get aircrafts that are "heavier than air" off the ground a force has to act

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upwards that is at least
equal to the weight of the
aircraft. This force is
called lift and is created
by the wings.

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Design principles. Each rotor produces both lift and torque about its center of rotation, as well as drag opposite to the vehicle's direction of flight.

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Quadcopters generally have two rotors spinning clockwise (CW) and two counterclockwise (CCW).

Flight control is provided by independent variation of the speed and hence lift and torque of each rotor.

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This is an outstanding book which presents principles of helicopter flight and depicts the theories with figures. Moreover, there are quiz pages at the end of the

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