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with the

aerodynamics of the

rotor in hover,

vertical flight,

forward flight and

climb.

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Once a helicopter
leaves the ground,
it is acted upon by
the four
aerodynamic forces.

In powered flight
(hovering, vertical,
forward, sideward,
or rearward), the
total lift and thrust

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forces of a rotor are perpendicular to the tip-path plane or plane of rotation of the rotor. During hovering flight, a helicopter maintains a constant position.

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material gives a

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related to rotor

craft systems. This

is a basic theory

behind the

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helicopter blades.
How the relative
wing is affecting
during hover,
transnational flight,
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Basics of helicopter
aerodynamics The
basic flight regimes
of helicopter
include hover,
climb, descent, and
forward flight, and

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the analysis and study of these flight regimes can be approached by the actuator disk theory, where an infinite number of zero thickness blades support the thrust force generated by the rotation of the blades [1].

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helicopter is truly a

unique form of

aircraft and a

mastery of modern

aironau- tical

engineering that

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fulfills a variety of civilian and military roles. The usefulness of the helicopter lies in its unique ability to take off and land vertically on almost any terrain, to hover stationary relative to the ground, and to fly forward, backward, or sideways.

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the fuselage as a wing whilst in the helicopter, the aerofoil has been removed from the fuselage and attached to a centre shaft which, by one means or another, is given a rotational

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Concepts Much of
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material has been
taken from U.S.

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