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This text provides a thorough, modern treatment of the aerodynamic principles of helicopters and other rotating-wing vertical lift aircraft. It covers basic topics of aerodynamic analysis, helicopter performance and design, and advanced topics, including airfoil flows and unsteady aerodynamics. Every chapter includes numerous illustrations, a bibliography, and homework problems.

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Principles of Helicopter Aerodynamics. Second Edition. The helicopter is truly a unique form of aircraft and a mastery of modern aeronautical engineering that 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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special characteristics of the main rotor and its function in autorotation axial and oblique flow, regimes of vertical and horizontal flight, climb and descent, takeoff and landing, balance, stability and control of the helicopter and their acting aerodynamic forces. (Author).

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The basic flight regimes of helicopter include hover, climb, descent, and forward flight, and 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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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 upwards that is as 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. 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.

~~Quadcopter — Wikipedia~~

It goes on to cover more advanced topics in helicopter aerodynamics, including airfoil flows, unsteady aerodynamics, dynamic stall, and rotor wakes, and rotor-airframe aerodynamic interactions, with final chapters on autogiros and advanced methods of helicopter aerodynamic analysis.

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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 each section. As a helicopter pilot, I assure you that you are going to learn much from this book. However, it is not for the beginners. The book requires basic understanding of numbers, i.e. maths, physics and aerodynamics. After having some ...

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