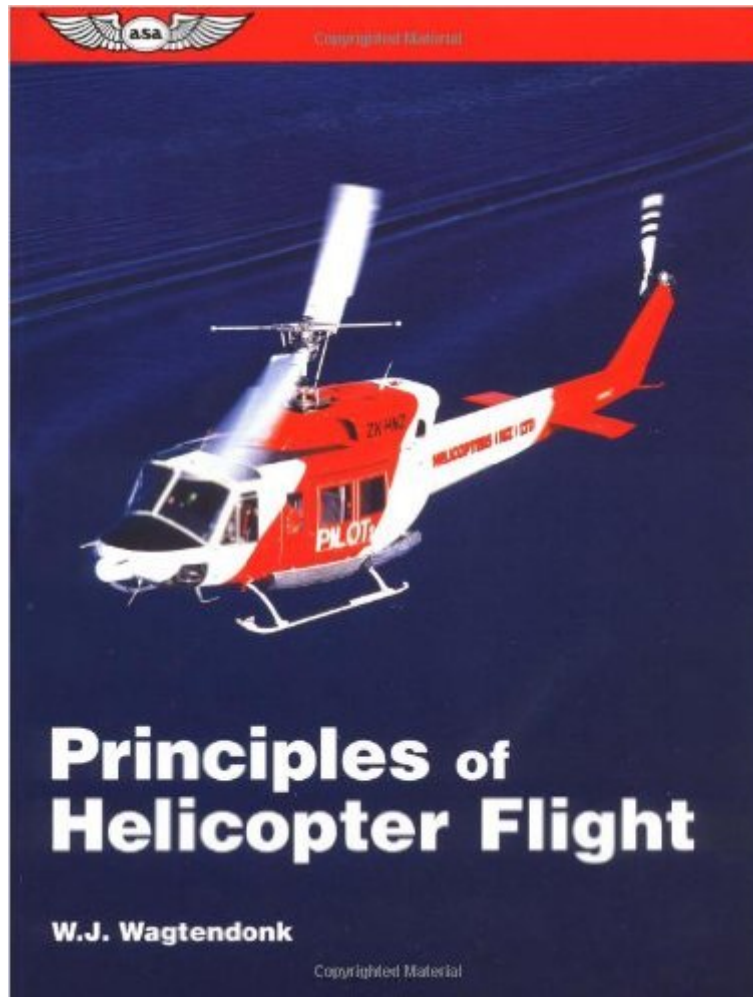


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# Principles Of Helicopter Flight (ASA Training Manuals)



## Synopsis

Written with a building-block approach to learning to fly a helicopter, this comprehensive textbook shows pilots the underlying foundation of why the helicopter behaves the way it does. Discussing the complexities of helicopter flight in clear terms, this book explains the aerodynamic factors associated with rotor stalls, mast bumping, and wind effect. Also included are testing requirements and complete helicopter theory that every pilot can grasp and use to best master this type of aircraft.

## Book Information

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## Customer Reviews

This is NOT a flight instruction book, and is quite heavy reading. It requires a basic understanding of physics and mathematics in order to comprehend the descriptions and explanations. With that said, this is a must-have book for all aspiring rotorheads! This book is a terrific technical manual regarding the physics behind rotary-winged flight. It explains through diagrams and mathematical formulae both how and why helicopters fly. I highly recommend this book to anyone who really wants an understanding of rotary-winged flight, and to student helicopter pilots, as knowing the WHY is just as important as the HOW of flying.

Having just completed my CPL (rotor) examinations, I must say it was great to have a book that was easy to understand & supplied me with the answers as they arose in the practical flying hours thereafter. I am sure that anyone who reads the book from cover to cover a few times would have a very good understanding of the complexities involved in the world of rotary-winged craft. Thank

you Walter.

There's not many textbooks on helicopter aerodynamics for student pilots( private and commercial alike). And having used it to prepare for my license I have found that there's no one better on the market.

This is an excellent book for the beginning pilot. You DO NOT need to have a prior knowledge of physics to understand this book. If you can read and follow diagrams, you can understand the book. The text is clear and concise as are the diagrams. It gives you a full and thorough understanding of a very complex machine. If you have a hard time understanding this book you may want to reconsider piloting a helicopter.

This is a good book for anyone wanting to become familiar with the in depth "nuts and bolts" of helicopter flight. It may be a little too complex for someone who is just trying to learn the basics of how a helicopter flies. The book tends to assume that some of the scientific principles are generally understood by all readers. In my opinion, not a good first book.

I purchased this book as an optional book for a helicopter theory class, knowing nothing about helicopters going into the class. Since, I have found this book an essential read to supplement the FAA's rotorcraft flying handbook. Principles of Helicopter Flight delves deep into the theory of helicopter operation more than the FAA version, with chapters broken up well for each subject. It also follows a very logical, simple format so that people not familiar with basic physics concepts can pick up the book and learn everything they need to know. Overall, it is the perfect text for new pilots and veterans alike. Engineers will have to use it only as reference, as it does not delve too deep into the equations of flight theory and aerodynamics. Principles of Helicopter Flight

I fly radio controlled helicopters and wanted to understand the principles of flight plus some flight characteristics that baffled me. The combination of clear explanations of flight behavior and excellent graphics make this book an excellent choice. The physics that underlie the performance of a helicopter are covered in just the right level of detail. The reaction to various control inputs and the various mechanisms that provide those inputs are thoroughly explained and are accompanied by excellent drawings and graphs. No matter what size of helicopter you fly, this book will help you understand why a helicopter performs as it does.

I purchased this book because I needed another study guide for the AFAST exam. The explanations, diagrams and glossary words were key for me. Anyone with moderate knowledge of physics shouldn't have any issue with this book. After talking to several helicopter pilots I do feel that some things were left out of the book, but overall this book is excellent for getting familiarized with basic helicopter principles.

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