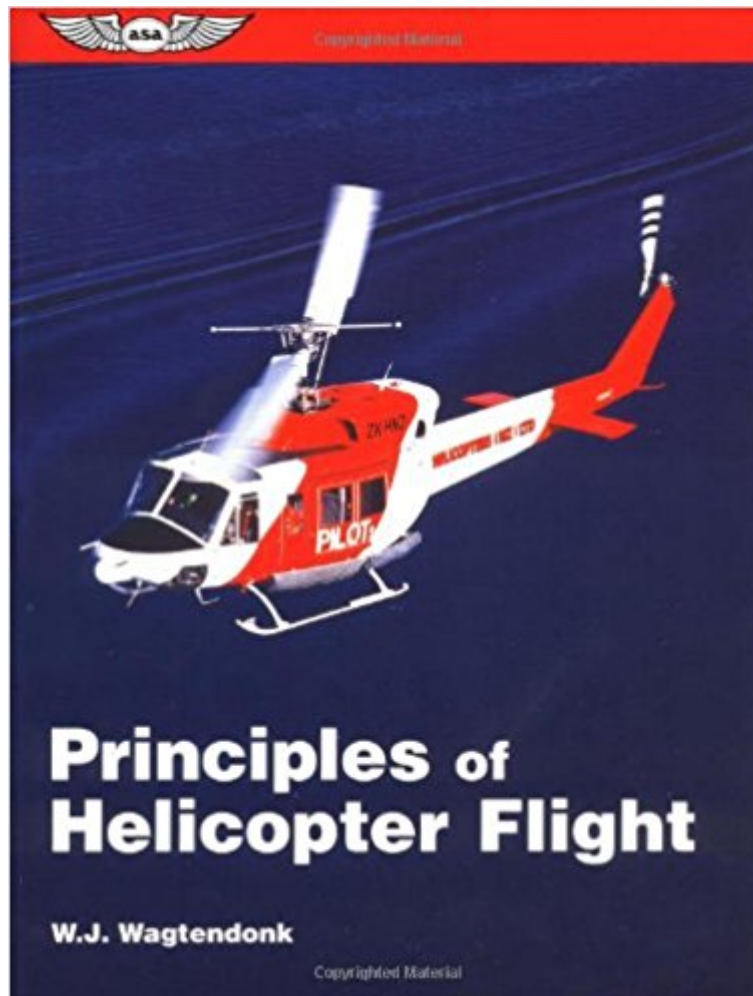




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# Principles Of Helicopter Flight (ASA Training Manuals)



## 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

W. J. Wagtendonk was a flight lieutenant with the Royal New Zealand Air Force and founder of the Nelson Aviation College.

I go USMC OSC Air in a few short months, and this book has all the info i need to be prepared for my potential helo training. Very clearly expressed theories and explanations on just about everything. I love how the book enforces theory FIRST and goes into actual helicopter flight AFTER. Fantastic read. To be honest, read it slow because the concepts are difficult for some to understand. It took me a few hours to fully grasp a few things, but I highly recommend to understand in totality the concepts. It will greater your understanding of the rest of the book! Enjoy!

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 tiring 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 recommend this book to anyone wanting to study helicopter theory of flight. I bought the first edition many years ago and it's good to see the author updating it to keep it modern and relevant to new and experienced pilots. I use it in conjunction with the FAA Helicopter Handbook and find that I have a very good reference set of material to refer to as I learn these truly amazing machines and how they work. Do yourself a favour and pick up a copy!

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.

Excellent info but cheaply made, the pages started coming out on the first use. The binding is cheaply done.

I used this prior to Army Aviation School, and it provides a good solid foundation prior to getting down to the school. If you know this stuff going in, you'll be set up for success at the school and ahead of the learning curve.

This is a great book for an aspiring or current rotorcraft pilot. The book dives deep into the physics and science of rotorcraft flight. Its very complete. A reader will need to have a basic understanding of physics as it relates to flight. The only negative to this text is that the illustrations and print quality are sub-par. ASA could really do more to make the text more presentable. Overall a very good book for increasing flight knowledge.

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

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