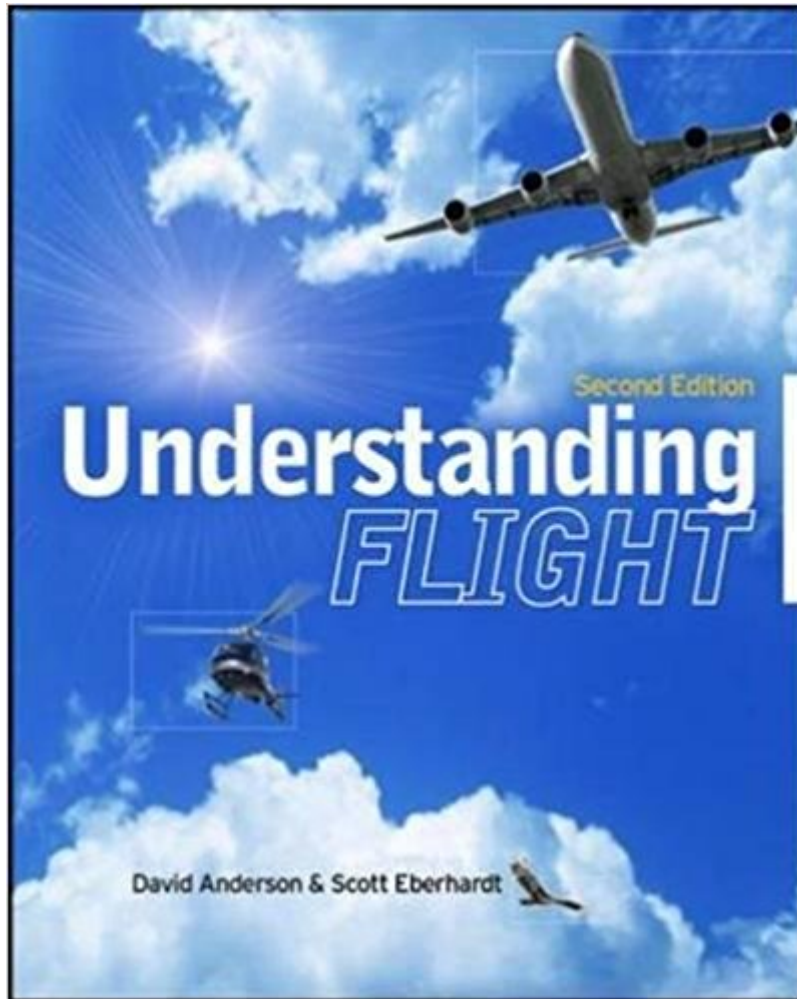




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Understanding Flight, Second Edition



Synopsis

Discover how planes get--and stay--airborneNow you can truly master an understanding of the phenomenon of flight. This practical guide is the most intuitive introduction to basic flight mechanics available. Understanding Flight, Second Edition, explains the principles of aeronautics in terms, descriptions, and illustrations that make sense--without complicated mathematics. Updated to include helicopter flight fundamentals and aircraft structures, this aviation classic is required reading for new pilots, students, engineers, and anyone fascinated with flight. Understanding Flight, Second Edition, covers: Physics of flightWing design and configurationStability and controlPropulsionHigh-speed flightPerformance and safetyAerodynamic testingHelicopters and autogyrosAircraft structures and materials

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Customer Reviews

David Anderson is a lifelong pilot. He holds a Ph.D. in Physics from Columbia University. Scott Eberhardt works in high-lift aerodynamics with Product Development, at Boeing Commercial Airplanes.

I think this is the right book to start the investigation of flight. It is well written and structured. It explains the theories of flight in simple and easy to understand terms. This is not a text book for scientists but it does exactly what the title says. I am thankful that I purchased it because I have ten other books that just led me to being more confused and now, because of this book I am confident

of my knowledge of flight.

What are you looking for? This book is written by very accomplished aeronautical industry/academic professionals. Do you want their insights? Or, do you want their formulae? Many want the formulae, but I wanted the insights. And that is exactly what this book provides. If you are looking for a fresh, experienced, and non-dogmatic view of the principles of flight then this is the book for you. You'll get it as soon as you get through about 20 pages. This isn't your sad physics teacher's regurgitation text on flight. It is real and begins to point light on lift and aerodynamics for those of a more philosophically curious nature. Simple, straight-forward, and with the gravity of experience. Excellent.

I purchased this book for my daughter, who is 13 and enamored with flight. She has spent hours with the book. The pictures and drawings help bring the topics down to an understandable level for all ages.

This was great for the gifted middle schooler I have it to. He dove in right away. The book has nice narrative explanations of the concepts without overwhelming with formulas. I think this will inspire my student to look at the math later on down the line. I liked the book so much I am ordering one for myself. Just a fun read for the aviation or physics nerd of any age.

Finally! A text book that debunks the religiously held view that lift is a result of the application of Bernoulli's theorem. It makes much more sense to think of it in terms of Coanda & Newton.

Very thorough, detailed and where the book repeats itself, it is clearly on key points, expressed differently, which aided understanding. Reading it on a Paper White Kindle of course, made some of the illustrations a little difficult to make out, which is understandable.

A very readable description of the mechanics of flight, with lots of neat information on modern airplane technology- many books of this type stop with a description of the Piper Cub- or some other simple trainer, but this goes into modern planes.

This book cover all expectations you need about the secrets of air navigation, The book treats not only the theory of flights, and its myths, in addition you will find inside the power explanation, propellers and much more!!! This is a book I strongly suggest you!!!

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