Understanding Flight

By David W. Anderson, Scott Eberhardt

Language: English. Brand New Book. Discover how planes get-- and stay--airborne Now 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 flight Wing design and configuration Stability and control Propulsion High-speed flight Performance and safety Aerodynamic testing Helicopters and autogyros Aircraft structures and materials.

READ ONLINE
[ 7.89 MB ]

Reviews

It in one of the most popular publication. It really is written in easy words and not difficult to understand. You are going to like how the author write this book.
-- Prof. Evans Balistreri DDS

Completely essential go through book. This is for all who statute there had not been a worthy of reading through. It is extremely difficult to leave it before concluding, once you begin to read the book.
-- Lydia Legros
This book provides a completely understandable and coherent explanation of flight. It doesn't bog you down in math and intuitively describes the basics of aerodynamics including performance, stability, and control. Highly recommended! Thorsten. Status: Nov. 24th, 2009.

Quite a few aircraft in FlightGear are capable of supersonic flight. For some of them, notably modern fighter aircraft, supersonic flight does not require any specific action by the pilot. Nevertheless, it may be useful to understand why the aircraft behaves somewhat different when the speed of sound is approached. For other aircraft, such as the Concorde or the SR-71 Blackbird, operating the aircraft in supersonic flight means following elaborate climb-out.
they...develop different...intuitive way of thinking about how airplanes fly [and] delve into high-speed flight and aerodynamic testing.


From the Back Cover.

Get to the heart of how planes fly.


Quite a few aircraft in FlightGear are capable of supersonic flight. For some of them, notably modern fighter aircraft, supersonic flight does not require any specific action by the pilot. Nevertheless, it may be useful to understand why the aircraft behaves somewhat different when the speed of sound is approached. For other aircraft, such as the Concorde or the SR-71 Blackbird, operating the aircraft in supersonic flight means following elaborate climb-out