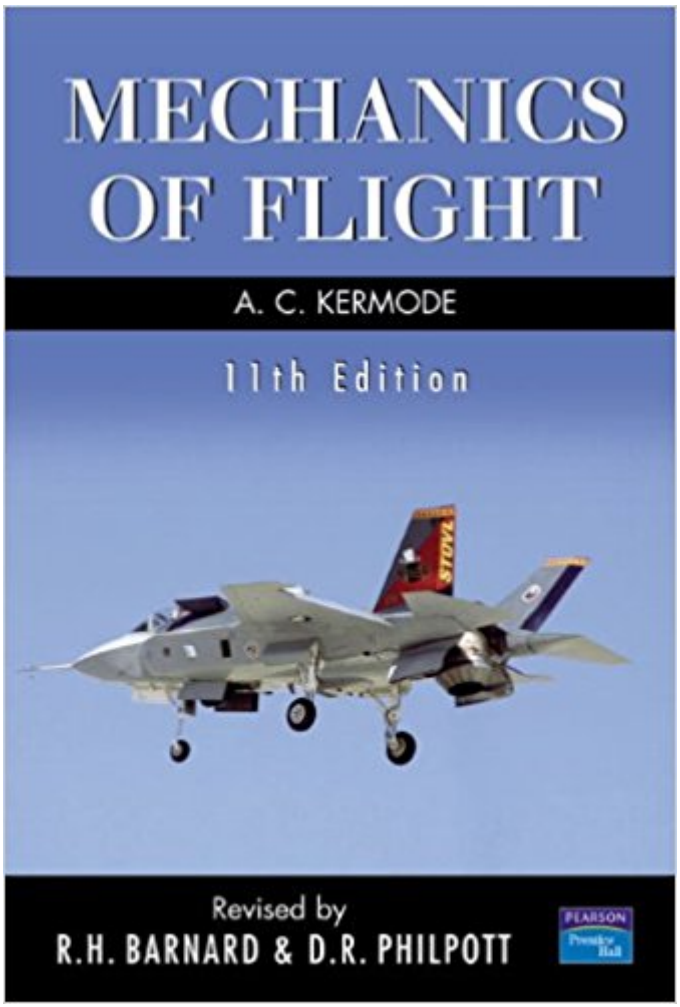
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Mechanics Of Flight (11th Edition)



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Synopsis

Mechanics of Flight is an ideal introduction to the principles of flight. The eleventh edition has been updated to conform to current teaching practices and technical knowledge. Written in a clear jargon-free style, the book contains simple numerical examples. The book commences with a summary of the relevant aspects of mechanics, and goes on to cover topics such as air and airflow, aerofoils, thrust, level flight, gliding, landing, performance, manoeuvres and stability and control. Important aspects of these topics are illustrated by a description of a trial flight in a light aircraft. The book also deals with flight at transonic and supersonic speeds, and finally orbital flight and spacecraft.

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Customer Reviews

Ã Â Mechanics of Flight is an ideal introduction to the principles of flight. The eleventh edition has been completely reset and the text updated to conform to current teaching practices and technical knowledge. Written in a clear jargon-free style, the book contains simple numerical examples which are suitable for students up to HND levelÃ Â and for first year degree students. The book commences with a summary of the relevant aspects of mechanics, and goes on to cover topics such as air and airflow, aerofoils, thrust, level flight, gliding, landing, performance, manoeuvres and stability and control. Important aspects of these topics are illustrated by a description of a trial flight in a light aircraft. The book also deals with flight at transonic and supersonic speeds, and finally orbital flight and spacecraft. Key Features AÃ Â straightforward practical approach to the subject

based on the application of the basic principles of mechanics. Descriptions are aided by the use of a large number of illustrations and photographs. Numerical questions with answers make it suitable as a course teaching resource. Non-numerical questions and answers are included to allow readers to assess their own understanding.Ã Â Ã Â Mechanics of Flight is an excellent text for student pilots, students of aeronautical and aerospace engineering, aircraft engineering apprentices and anyone who is interested in aircraft. A recommended follow-up book is Aircraft Flight (also published by Pearson Prentice Hall) by Richard Barnard and David Philpott. The authors have alsoÃ Â provided the recent and current revisions of Mechanics of Flight. R. H. Barnard PhD, CEng, FRAeS; formerly Principal Lecturer in Mechanical and Aerospace Engineering at the University of Hertfordshire. D. R. Philpott PhD, CEng, MRAeS; formerly Principal Aerodynamic Specialist at Raytheon Corporate Jets and Reader in Aerospace Engineering at the University of Hertfordshire. Ã Â

R H Barnard. PhD, CEng, FRAeS; formerly Principal Lecturer in Mechanical and Aerospace Engineering at the University of Hertfordshire.D R Philpott. PhD, CEng, MRAeS; formerly Principal Aerodynamic Specialist at Raytheon Corporate Jets and Reader in Aerospace Engineering at the University of Hertfordshire.

This book is a good read on flight mechanics but is somewhat cursory in it’s treatment of topics. The author’s style makes for easy reading, albeit spelling and grammar is very British. The examples, graphs and what mathematics is presented in the book are in metric units. For the size of the book the author covers a broad range of subjects. He has a fluid style and an easy way of describing what can be a complex subject.The book, in my opinion, would not be appropriate as a college text on flight mechanics, but could be appropriate for some aviation technical courses. It is a good introductory text for pilots and homebuilders interested in gaining a qualitative grasp of the subject. For engineers, a more suitable text would be a book by the same title, "Mechanics of Flight", by Warren F. Phillips. This could easily be a companion text to that book or other more quantitative treatises on the subject.

"Mechanics of Flight" is an excellent book on the introduction to the principles of flight. The book gives a comprehensive coverage of a wide range of topics on mechanics and principles of flight including air and airflow characteristics, aerofoils, thrust for flight, level flight, gliding, take-off and landing, aircraft performance, manoeuvres, stability and control, subsonic, transonic and supersonic

flight, missiles, satellites and spacecraft.The author did a good job of taking the otherwise complex subject of flight into a clearly explained and illustrated subject making it interesting and easy to follow by anyone with a high school level of knowledge of physics and mathematics. The book is well written with easy to follow explanations and worked examples. The beauty of the book is that one can learn principles of flight and aeronautical engineering without having to go through complicated formula. The reader will find the book easy to follow due to the author's generous use of diagrams and graphs.The book is recommended reading for aeronautical engineering students, flight enthusiasts and pilots.

With easy to follow explanations and numerical examples, the Mechanics of Flight 10 th Edn is an excellent book for pilots wanting to further understand the theoretical principles of flight. For aspiring pilots with a good grasp of mechanics (high-school level Physics in Australia) or trainee pilots with a grasp of basic aerodynamics, this book will be immediately relevant and useable. For those without that prior understanding this book may be too much too soon-in which case an emperical study of aerodynamics as presented in books like 'Flight WithoutFormulae' AC Kermode or 'Aircraft Flight' Barnard & Philpott may be more suitable.

Aeronautical engineering without equations. Nevertheless, no compromise . No detail left out. Very torough. No corner cut round. Lots of graphics, lots of diagram, most of all, a smart text , easy to understand. It appealed to me as an engineer; it clarified important issues to me as a pilot.Mr Kermode is very respectabkle both as an engineer and as a communicatorI recommand enthusiastically

I am currently a senior technician in the Air Force and am sitting for Liscenced Aircraft Engineers examination. Never have I seen a book that explains its content in details yet easily digestable. All I can say is that Mechanics of Flight is a diificult subject but not anymore after reading this book. An extra BONUS...all questions from the examinations are actually covered extensively.

The Best book for Budding Aeronautical engineering Students and proffesional pilots. Easy to read, all the information you need.

This book is probably considered a classic - first released in 1972. its still published thirty years later.Mr. Kermode has taken something as complex as flight and describes it in such a way to make

it informative and interesting.I bought this book while I was doing a private and commercial flying licence and it proved invaluable in explaining many concepts in a way that made sense.I beleive this book is worth every cent I paid for it - buy it!

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