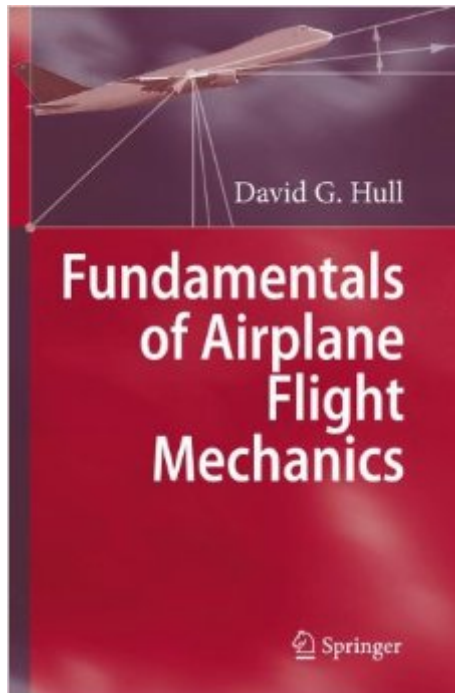


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# Fundamentals Of Airplane Flight Mechanics



## Synopsis

Flight mechanics is the application of Newton's laws to the study of vehicle trajectories (performance), stability, and aerodynamic control. This volume details the derivation of analytical solutions of airplane flight mechanics problems associated with flight in a vertical plane. It covers trajectory analysis, stability, and control. In addition, the volume presents algorithms for calculating lift, drag, pitching moment, and stability derivatives. Throughout, a subsonic business jet is used as an example for the calculations presented in the book.

## Book Information

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## Customer Reviews

As a student in the class taught by the "genius" who wrote this book (nearly 30 years ago no less), I can say firsthand how utterly useless the book is. The entire thing is spent deriving equations that are at best reasonable approximations (that can't really be applied with any precision to real engineering problems) - not to mention how spotty and horrible the derivations are, since it skips tons of steps and expects you to understand concepts never mentioned prior - and worst of all, all the derivations are super specific to this hypothetical "small business jet" that doesn't actually exist. Yes yes, learning the derivations of these approximation helps you "understand" the concepts at work, but this book is just horrible at even doing that. Don't buy it for fun, and if you have to buy it for class (primarily Flight Dynamics at UT Austin - where the professor teaches), do your best to borrow someone else's copy and save your own money for more productive things.

Really, that's all I have to say; this book is horrible. I hope no one ever has to suffer the fate of having to use this book. Quite frankly, I'd be leery of any professor that would insist on using such a book. Or any department that would hire the sort of professor that would use this book. It's all based on a mysterious small business jet. Is full of typos and errors, and is quick to neglect terms in the math for the sake of simplicity.

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