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# Introduction To Aircraft Flight Mechanics: Performance, Static Stability, Dynamic Stability, Classical Feedback Control, And State-Space Foundations (AIAA Education)





## Synopsis

Introduction to Aircraft Flight Mechanics, Second Edition revises and expands this acclaimed, widely adopted textbook. Outstanding for use in undergraduate aeronautical engineering curricula, it is written for those first encountering the topic by clearly explaining the concepts and derivations of equations involved in aircraft flight mechanics. It begins with a review of basic aerodynamics and propulsion and continues through aircraft performance, equations of motion, static stability, linearizing equations of motion, dynamic stability, classical feedback control, stability and control augmentation, Bode, state space, and special topics. The second edition also features insights about the A-10 based upon the author's career experience with this aircraft.

## Book Information

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## Customer Reviews

Thomas R. Yechout is a Professor of Aeronautical Engineering at the U.S. Air Force Academy. He earned his Doctor of Engineering degree in Aerospace Engineering from the University of Kansas and is an AIAA Associate Fellow. He is the recipient of numerous awards including the NASA Outstanding Achievement Award, Frank J. Seiler Award for Research Excellence, and the Heiser Award as the Outstanding USAFA Senior Faculty Educator. He was also honored by the Carnegie Foundation as the 2011 Colorado Professor of the Year. His background includes development and flight testing of the F/FB-111, A-7D, F-4E, and Lear 35 aircraft as well as extensive experience with

the A-10. In addition, he has served as the principal investigator for numerous wind tunnel investigation programs, holds the patent for the Rakelet wing tip modification concept, and has authored over 200 technical publications.

Great, easy to follow textbook. If you have an AIAA membership I recommend buying it through their website, as it will be cheaper there than anywhere else online.

Great text!! Very clear, easy to read and follow. Author does seem to expect the reader to read in a continuous fashion (from beginning to end) other wise the reader can become lost. But that is expected from these kinds of engineering books. Over all; 5 stars is a fitting rating for this text.

The book arrived on time and the book itself is one of the most complete I've ever bought

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