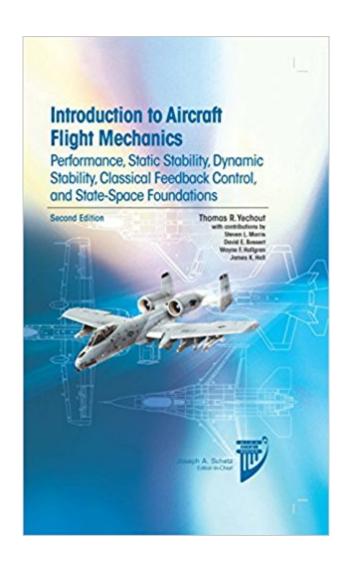


## The book was found

# 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**

Series: AIAA Education

Hardcover: 700 pages

Publisher: AIAA (American Institute of Aeronautics & Astronautics); 2nd Revised ed. edition (May 1,

2014)

Language: English

ISBN-10: 1624102549

ISBN-13: 978-1624102547

Product Dimensions: 6.5 x 1.5 x 9.2 inches

Shipping Weight: 2.9 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 3 customer reviews

Best Sellers Rank: #276,640 in Books (See Top 100 in Books) #154 in Books > Textbooks >

Engineering > Aeronautical Engineering #393 in Books > Science & Math > Astronomy & Space

Science > Aeronautics & Astronautics #441 in Books > Engineering & Transportation >

Engineering > Aerospace

### 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 <u>Download to continue reading...</u>

Introduction to Aircraft Flight Mechanics: Performance, Static Stability, Dynamic Stability, Classical Feedback Control, and State-Space Foundations (AIAA Education) Nonlinear Power Flow Control Design: Utilizing Exergy, Entropy, Static and Dynamic Stability, and Lyapunov Analysis (Understanding Complex Systems) The World Encyclopedia of Aircraft Carriers and Naval Aircraft: An Illustrated History Of Aircraft Carriers And The Naval Aircraft That Launch From ... Wartime And Modern Identification Photographs Christmas- The Story of Christmas Reusable Static Sticker-Children s Bible-Christmas Carol-Christmas Gifts-Angels-Baby Jesus-Joseph-Mary-Manger-Bright ... 2nd Edition Soft Cover (Static Sticker Bible) The Floridas: The Sunshine State \* The Alligator State \* The Everglade State \* The Orange State \* The Flower State \* The Peninsula State \* The Gulf State Thanks for the Feedback: The Science and Art of Receiving Feedback Well Feedback Control of Dynamic Systems (7th Edition) Feedback Control of Dynamic Systems (5th Edition) Introduction to Flight Testing and Applied Aerodynamics (Aiaa Education Series) Fundamentals of Aircraft and Airship Design (AIAA Education Series) The Fundamentals of Aircraft Combat Survivability Analysis and Design, Second Edition (AIAA Education) Aircraft Systems: Mechanical, Electrical, and Avionics Subsystems Integration (AIAA Education) Aircraft Design: A Conceptual Approach (Aiaa Education Series) Designing Unmanned Aircraft Systems: A Comprehensive Approach, Second Edition (AIAA Education Series) Aircraft Design: A Conceptual Approach, Fourth Edition (AIAA Education) Gust Loads on Aircraft: Concepts & Applications (AIAA Education) Aircraft Engine Design, Second Edition (AIAA Education) The YC-14 STOL Prototype: Its Design, Development, and Flight Test (AIAA Education) Helicopter Flight Dynamics (AIAA

Education) The Finite Element Method: Linear Static and Dynamic Finite Element Analysis (Dover Civil and Mechanical Engineering)

Contact Us

DMCA

Privacy

FAQ & Help