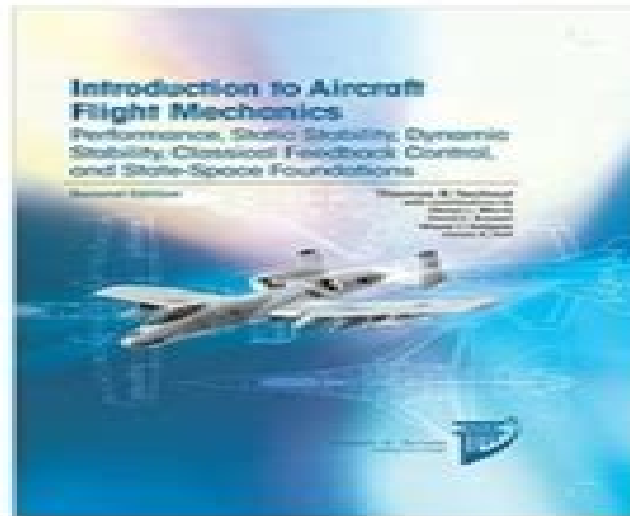


Introduction to Aircraft Flight Mechanics: Performance, Static Stability, Dynamic Stability, Classical Feedback Control, and State-Space Foundations (AIAA Education)



BOOK DETAIL

Series: AIAA Education Hardcover: 700 pages Publisher: AIAA (American Institute of Aeronautics & Astronautics); 2nd Revised ed. edition (May 1, 2014) Language: English ISBN-10: 9781624102547 ISBN-13: 978-1624102547 ASIN: 1624102549 Product Dimensions: 6.2 x 1.5 x 9 inches



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Book Description

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.

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