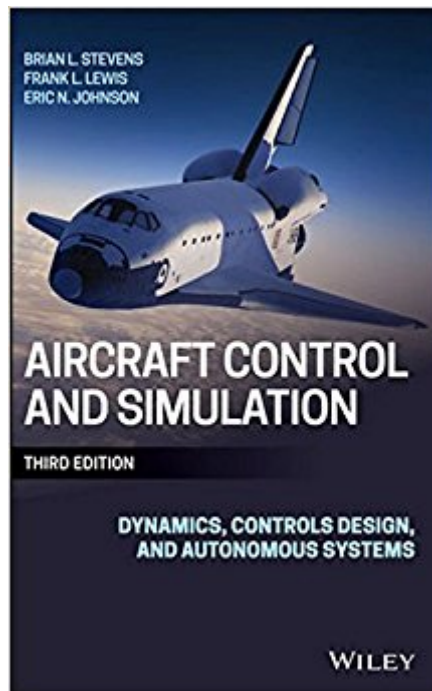




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# Aircraft Control And Simulation: Dynamics, Controls Design, And Autonomous Systems



## Synopsis

Get a complete understanding of aircraft control and simulation **Aircraft Control and Simulation: Dynamics, Controls Design, and Autonomous Systems, Third Edition** is a comprehensive guide to aircraft control and simulation. This updated text covers flight control systems, flight dynamics, aircraft modeling, and flight simulation from both classical design and modern perspectives, as well as two new chapters on the modeling, simulation, and adaptive control of unmanned aerial vehicles. With detailed examples, including relevant MATLAB calculations and FORTRAN codes, this approachable yet detailed reference also provides access to supplementary materials, including chapter problems and an instructor's solution manual. Aircraft control, as a subject area, combines an understanding of aerodynamics with knowledge of the physical systems of an aircraft. The ability to analyze the performance of an aircraft both in the real world and in computer-simulated flight is essential to maintaining proper control and function of the aircraft. Keeping up with the skills necessary to perform this analysis is critical for you to thrive in the aircraft control field. Explore a steadily progressing list of topics, including equations of motion and aerodynamics, classical controls, and more advanced control methods Consider detailed control design examples using computer numerical tools and simulation examples Understand control design methods as they are applied to aircraft nonlinear math models Access updated content about unmanned aircraft (UAVs) **Aircraft Control and Simulation: Dynamics, Controls Design, and Autonomous Systems, Third Edition** is an essential reference for engineers and designers involved in the development of aircraft and aerospace systems and computer-based flight simulations, as well as upper-level undergraduate and graduate students studying mechanical and aerospace engineering.

## Book Information

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## Customer Reviews

The book retains its original chapter subject skeleton with the titles slightly changed and as mentioned has two new chapters added, in total it is some 150 pages longer than the original. This is not however a simple graft of new material onto the original book. Many of the chapters have been rewritten so that even where much the same material is covered, it is more detailed and augmented, whilst at the same time maintaining a consistent uniform style across the whole book....In conclusion this new edition is a significant update of a popular text...(The Aeronautical Journal- January 2017)

THE ESSENTIAL AIRCRAFT ANALYSIS REFERENCE, UPDATED WITH THE FIELD'S LATEST TECHNOLOGY Aircraft Control and Simulation provides comprehensive, expert-led guidance to the topic, accessible to both students and professionals involved in the design and modeling of aerospace vehicles. Updated to include new coverage of Unmanned Aerial Vehicles, this new third edition has been expanded throughout to cover the latest advances in the field. The material progresses steadily from motion and aerodynamics equations through advanced control methods, using detailed real-world examples with model software details provided. Fundamental principles give way to dynamic analysis, stability evaluation, multivariable control, and more, including geodesy and the gravitational theory behind suborbital aircraft. Special features in this updated edition include: Up-to-date coverage of flight control systems, flight dynamics, aircraft modeling, and flight simulation, based on both classical design and modern techniques Two new chapters that explore the modeling, simulation, and adaptive control of Unmanned Aerial Vehicles Comprehensive control design and simulation examples, including relevant MATLAB calculations and FORTRAN code Supplementary instructor materials ease this book into any aerospace curriculum, and the comprehensive coverage provides an excellent resource for students and professionals alike. Aircraft Control and Simulation is the essential reference for anyone involved in aerospace modeling and design.

Remarkable and insightful.

This book is one of the best references on Flight Control System. Though I have earlier editions, this

3rd edition is enlarged with additional material

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