



Aircraft and Rotorcraft System Identification (Aiaa Education Series)

Mark B. Tischler, Robert K. Remplr

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Presenting proven methods, practical guidelines, and real-world flight-test results for a wide range of state-of-the-art flight vehicles, "Aircraft and Rotorcraft System Identification, Second Edition" addresses the entire process of aircraft and rotorcraft system identification from instrumentation and flight testing to model determination, validation, and application of the results. In this highly anticipated second edition, authors Tischler and Remple have added dedicated in-depth chapters presenting extended model structures and identification results for large flexible transport aircraft, and the detailed methodology to develop a continuous full flight envelope simulation model from individual system identification models and trim test data. Topics Discussed include: Frequency-response methods that are especially well suited for system identification of flight vehicle models from flight-test data; specific guidelines for flight testing, data analysis, and the proper selection of model structure complexity; and emphasis on the importance of physical insight in model development and applications. Special features: student version of CIPHER[registered] with updated graphical user interface using MATLAB[registered]; numerous flight-test results for both manned and unmanned vehicles illustrating the wide-ranging roles of system identification, including the analysis of flight mechanics, feedback control, handling qualities, subsystem dynamics, structural analysis, higher-order models for aircraft and rotorcraft, and simulation; and, extensive problem sets at the end of each chapter, with many exercises based on flight-test data provided for the XV-15 in hover and cruise giving the reader hands-on real-world experience with system identification methods and interpretation of the results.

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