Bibliography for Aircraft Parameter Estimation

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PREFACE

A bibliography is a useful source of potential references for research in any field of study. An extensive bibliography has not been available in the field of aircraft parameter estimation, and this document is the result of an effort to fill this void. The list is extensive, although not exhaustive, and does contain definitive works related to most aircraft parameter estimation approaches. Theoretical studies as well as practical applications are included. Many of these publications are pertinent to subjects peripherally related to parameter estimation, such as aircraft maneuver design or instrumentation considerations.

This bibliography was generated by soliciting useful reference material from leading international parameter estimation specialists; the primary criterion for including any reference was that it be considered meaningful by some specialists. There is no claim that the list is complete.
BIBLIOGRAPHY


Bayes, Thomas: An Introduction to the Doctrine of Fluxions, and a Defence of the Mathematicians Against the Objections of the Author of “The Analyst.” John Noon, London, 1736. (For additional information see Barnard, 1958.)


Kurzhals, P.R., ed.: Active Controls in Aircraft Design. AGARD-AG-234, Nov. 1978.


Renz, Ronald R.L.; Clarke, Robert; Mosser, Mark A.; Roskam, Jan; and Rummer, Dale: Development of a Simple, Self-Contained Flight Test Data Acquisition System. SAE Business Aircraft Meeting and Exposition, Wichita, Kansas, April 7-10, 1981, SAE Paper 81056, 1981.


Ross, A. Jean; and Foster, G.W.: Fortran Programs for the Determination of Aerodynamic Derivatives From Transient Longitudinal or Lateral Responses of Aircraft. RAE CP-1344, 1976.


This document is the result of an effort to compile an extensive bibliography in the field of aircraft parameter estimation. This list contains definitive works related to most aircraft parameter estimation approaches. Theoretical studies as well as practical applications are included. Many of these publications are pertinent to subjects peripherally related to parameter estimation, such as aircraft maneuver design or instrumentation considerations.

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- Aircraft stability and control
- Bibliography
- Maximum likelihood
- Parameter estimation

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