

Criteria for Low-Speed Longitudinal Handling Qualities: Of Transport Aircraft with Closed-Loop Flight Control Systems



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Springer. Hardcover. Condition: New. 152 pages. Dimensions: 10.0in. x 7.0in. x 0.4in. In-flight simulation experiments performed in 1967 with a variable-stability aircraft during the authors' stay at Princeton University, motivated the study of handling characteristics of future transport aircraft with closed-loop flight control systems. In 1972, the first experiment took place at the National Aerospace Laboratory NLR, using one of its research aircraft. In anticipation of expected developments in (digital) flight control technology, the research programme following the first experiments was aimed at the establishment of quantitative handling qualities criteria. An appreciable part of that programme has been sponsored by the Netherlands Agency for Aerospace Programs (Nederlands Instituut voor Vliegtuigontwikkeling en Ruimtevaart) and the Department of Civil Aviation of the Netherlands (Rijksluchtvaartdienst). In 1981, a thorough review of the extensive and valuable data gathered was started. The result, presented in this book, was also included in the authors' thesis for a Ph. D. degree of the Delft University of Technology. To introduce the reader to the multi-disciplinary field of handling qualities research, introductory chapters are presented on longitudinal aircraft dynamics, closed-loop flight control systems using non-mechanical signal transmission, human pilot dynamics, handling qualities assessment techniques, and the present status of handling quality criteria. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Hardcover.



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