



Aerodynamic Analysis of a Landing Transport Airplane in Windshear

By Chin-Tang Tom Weng Chuan-Tau Edward Lan

VDM Verlag. Paperback. Condition: New. 120 pages. Dimensions: 8.6in. x 5.9in. x 0.4in. This book describes the effects of windshear on airplane aerodynamic characteristics during landing. Stability and control characteristics of a nominally controllable jet transport airplane that ran off the runway after touchdown during windshear encounter are evaluated based on the data in the onboard flight data recorder (FDR). To determine these characteristics, the recorded wind profile is first improved, and then the unsteady aerodynamic models for the aircraft in dynamic ground effect are estimated from the data in the FDR. Unsteady aerodynamic models for the aircraft are developed based on two artificial intelligent methods, the fuzzy-logic modeling and the feed-forward neural networks, applied to the processed FDR data. The stability and control characteristics are then estimated and analyzed by using these aerodynamic models. These results will be compared with several windshear identification methods, and the abnormal aerodynamic stability and control characteristics of a transport aircraft in windshear will be presented to increase the awareness of the windshear problems from the concepts of aerodynamic derivatives. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.



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