

1. Record Nr.	UNINA9910466586503321
Autore	Padfield G. D.
Titolo	Helicopter flight dynamics : including a treatment of tiltrotor aircraft / / Gareth D Padfield, University of Liverpool
Pubbl/distr/stampa	Hoboken, NJ : , : John Wiley & Sons, Inc., , [2018] ©2018
ISBN	1-119-40102-X 1-119-40108-9
Edizione	[Third edition.]
Descrizione fisica	1 online resource (855 pages)
Disciplina	629.132/3
Soggetti	Helicopters - Handling characteristics Helicopters - Aerodynamics Tilt rotor aircraft Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	The Book The behaviour of helicopters and tiltrotor aircraft is so complex that understanding the physical mechanisms at work in trim, stability and response, and thus the prediction of Flying Qualities, requires a framework of analytical and numerical modelling and simulation. Good Flying Qualities are vital for ensuring that mission performance is achievable with safety and, in the first and second editions of Helicopter Flight Dynamics, a comprehensive treatment of design criteria was presented, relating to both normal and degraded Flying Qualities. Fully embracing the consequences of Degraded Flying Qualities during the design phase will contribute positively to safety. In this third edition, two new Chapters are included. Chapter 9 takes the reader on a journey from the origins of the story of Flying Qualities, tracing key contributions to the developing maturity and to the current position. Chapter 10 provides a comprehensive treatment of the Flight Dynamics of tiltrotor aircraft; informed by research activities and the limited data on operational aircraft. Many of the unique behavioural characteristics of tiltrotors are revealed for the first time in this book.

The accurate prediction and assessment of Flying Qualities draws on the modelling and simulation discipline on the one hand and testing practice on the other. Checking predictions in flight requires clearly defined mission tasks, derived from realistic performance requirements. High fidelity simulations also form the basis for the design of stability and control augmentation systems, essential for conferring Level 1 Flying Qualities. The integrated description of flight dynamic modelling, simulation and flying qualities of rotorcraft forms the subject of this book, which will be of interest to engineers practising and honing their skills in research laboratories, academia and manufacturing industries, test pilots and flight test engineers, and as a reference for graduate and postgraduate students in aerospace engineering.

2. Record Nr.	UNINA9910712197003321
Autore	Hall M. R (Maxcy Reddick), <1864->
Titolo	Report of progress of stream measurements for the calendar year 1905 . Part 4 Santee, Savannah, Ogeechee, and Altamaha Rivers and Eastern Gulf of Mexico drainages / / prepared under the direction of F.H. Newell, Part 4 by M.R. Hall and John C. Hoyt
Pubbl/distr/stampa	[Washington, D.C.] : , : Department of the Interior, United States Geological Survey, , 1906 Washington : , : Government Printing Office
Descrizione fisica	1 online resource (164 pages, II, 1 page of plates) : illustrations, map
Collana	Water-supply and irrigation paper ; ; no. 168
Soggetti	Irrigation - Mexico, Gulf of Irrigation - United States Stream measurements - Mexico, Gulf of Stream measurements - United States Water resources development - Mexico, Gulf of Water resources development - United States Water-supply - Mexico, Gulf of Water-supply - United States Irrigation Stream measurements Water resources development Water-supply Gulf of Mexico United States

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