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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.

Autore

Titolo

Pubbl/distr/stampa

UNINA9910712197003321

Hall M. R (Maxcy Reddick), <1864->

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

Descrizione fisica

[Washington, D.C.] : , : Department of the Interior, United States Geological Survey, , 1906

Washington : , : Government Printing Office

Collana

1 online resource (164 pages, II, 1 page of plates) : illustrations, map

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
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Gulf of Mexico
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