1. Record Nr. UNINA9910815180303321 Autore Tewari Ashish Titolo Adaptive aeroservoelastic control / / Ashish Tewari Pubbl/distr/stampa Chichester, England:,: Wiley,, 2016 ©2016 **ISBN** 1-118-92773-7 1-118-92772-9 Descrizione fisica 1 online resource (482 p.) Collana Aerospace Series Disciplina 629.132/6 Soggetti Airplanes - Control systems Aeroservoelasticity Adaptive control systems Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references at the end of each chapters and index. Nota di contenuto Aerospace Series List; Title Page; Copyright; Dedication; Table of Contents; About the Author; Series Editor's Preface; Preface; Chapter 1: Introduction; 1.1 Aeroservoelasticity; 1.2 Unsteady Aerodynamics; 1.3 Linear Feedback Design: 1.4 Parametric Uncertainty and Variation: 1.5 Adaptive Control Design; 1.6 Organization; References; Chapter 2: Linear Control Systems; 2.1 Notation; 2.2 Basic Control Concepts; 2.3 Input-Output Representation; 2.4 Input-Output Linear Systems; 2.5 Loop Shaping of Linear Control Systems; 2.6 State-Space Representation; 2.7 Stochastic Systems; 2.8 Optimal Control 4.3 Active Suppression of Single Degree-of-Freedom Flutter4.4 Active Flutter Suppression of Typical Section; 4.5 Linear Feedback Stabilization; 4.6 Active Flutter Suppression of Three-Dimensional Wings; References; Chapter 5: Self-Tuning Regulation; 5.1 Introduction; 5.2 Online Plant Identification; 5.3 Design Methods for Stochastic Self-Tuning Regulators; 5.4 Aeroservoelastic Applications; References; Chapter 6: Nonlinear Systems Analysis and Design; 6.1 Introduction;

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