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Titolo	Applications of robust control to nonlinear systems [[electronic resource] /] / Richard D. Colgren
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Descrizione fisica	1 online resource (185 p.)
Collana	Progress in astronautics and aeronautics ; ; v. 205
Disciplina	629.1 s 629.8/312
Soggetti	Robust control Nonlinear systems Airplanes - Control systems - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 165-169) and index.
Nota di contenuto	<p>""Cover""; ""Title""; ""Copyright""; ""Table of Contents""; ""Preface""; ""Acknowledgments""; ""Volume Nomenclature""; ""Chapter 1. Introduction to Robust Control""; ""Chapter 2. Describing Function""; ""I. Definition of Describing Function""; ""II. General Describing Function Evaluation Methods""; ""Chapter 3. H(infinity) Optimal Control""; ""I. Performance Specification""; ""II. HOC Control Synthesis""; ""III. #00 Riccati Solution for Augmented Plant Containing Describing Function""; ""Chapter 4. Robustness Analysis via Simplicial Algorithms""; ""I. Analytic Geometry""</p> <p>""II. Simplicial Mapping""""III. Simplex Nulling""; ""IV. Integer Labeling""; ""V. Vector Labeling""; ""Chapter 5. Nonlinear H(infinity) Control""; ""I. Nonlinear H^ Control Approach""; ""II. #00 Control of System with Relay Element via Loop-Shifting""; ""III. Control via Adaptive Perturbation Filter""; ""IV. Nonlinear Robustness Analysis of Relay Element via Simplicial Algorithms""; ""Chapter 6. Direct Approach to Nonlinear H (infinity) Control""; ""I. Riccati Equation Solution Initialization""; ""II. Hamiltonian Matrix H^ Solution""; ""III. Solution to HOQ Riccati Equation""</p>

""IV. Hamiltonian Matrix J^ Solution""""V. Solution to Joe Riccati Equation""; ""VI. Optimal H^ Controller""; ""Chapter 7. Nonlinear H (infinity) Control of a UAV""; ""I. UAV Plant Model""; ""II. UAV Roll Axis Control""; ""III. Closed Loop UAV Response""; ""Chapter 8. Computer Algorithms""; ""I. HOQ Optimization""; ""II. FORTRAN Simulation""; ""III. Variable Dimension Restart Algorithm""; ""Chapter 9. Hardware Implementation Example""; ""I. Circuit Design""; ""II. Circuit's Dynamic Response""; ""Chapter 10. Piloted Aircraft Performance""; ""I. I?-Synthesis Design Procedure""
 ""II. Weightings and Uncertainty Models""""III. Conceptual I?-Synthesis Design""; ""IV. Iterated I?-Synthesis Design""; ""V. Maneuvers""; ""VI. Conclusions""; ""References""; ""Index""; ""A""; ""B""; ""C""; ""D""; ""E""; ""F""; ""G""; ""H""; ""I""; ""J""; ""L""; ""M""; ""N""; ""O""; ""P""; ""R""; ""S""; ""T""; ""U""; ""V""; ""W""; ""Z""

2. Record Nr.	UNINA9910872519803321
Titolo	1999 Particle Accelerator Conference
Pubbl/distr/stampa	[Place of publication not identified], : I E E E, 1999
Descrizione fisica	1 online resource
Disciplina	621.48
Soggetti	Nuclear engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	The conference covers new developments in all aspects of the science, technology, and the use of accelerators.