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Autore	Prez Rolando
Titolo	Purdue Studies in Romance Literatures : Severo Sarduy and the Neo-Baroque Image of Thought in the Visual Arts, Volume 53 [[electronic resource]]
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Descrizione fisica	1 online resource (332 p.)
Collana	Purdue studies in Romance literatures Severo Sarduy and the neo-baroque image of thought in the visual arts
Disciplina	864/.64
Soggetti	Art and literature Romance Literatures Languages & Literatures Spanish Literature
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Autore	Haddad Wassim M. <1961->
Titolo	Impulsive and hybrid dynamical systems : stability, dissipativity, and control / / Wassim M. Haddad, VijaySekhar Chellaboina, Sergey G. Nersesov
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Soggetti	Automatic control Control theory Dynamics Discrete-time systems
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 and index.
Nota di contenuto	Front matter -- Contents -- Preface -- Chapter One. Introduction -- Chapter Two. Stability Theory for Nonlinear Impulsive Dynamical Systems -- Chapter Three. Dissipativity Theory for Nonlinear Impulsive Dynamical Systems -- Chapter Four. Impulsive Nonnegative and Compartmental Dynamical Systems -- Chapter Five. Vector Dissipativity Theory for Large-Scale Impulsive Dynamical Systems -- Chapter Six. Stability and Feedback Interconnections of Dissipative Impulsive Dynamical Systems -- Chapter Seven. Energy-Based Control for Impulsive Port-Controlled Hamiltonian Systems -- Chapter Nine. Optimal Control for Impulsive Dynamical Systems -- Chapter Ten. Disturbance Rejection Control for Nonlinear Impulsive Dynamical Systems -- Chapter Eleven. Robust Control for Nonlinear Uncertain Impulsive Dynamical Systems -- Chapter Twelve. Hybrid Dynamical Systems -- Chapter Thirteen. Poincare Maps and Stability of Periodic Orbits for Hybrid Dynamical Systems -- Appendix A. System Functions for the Clock Escapement Mechanism -- Bibliography -- Index
Sommario/riassunto	This book develops a general analysis and synthesis framework for

impulsive and hybrid dynamical systems. Such a framework is imperative for modern complex engineering systems that involve interacting continuous-time and discrete-time dynamics with multiple modes of operation that place stringent demands on controller design and require implementation of increasing complexity--whether advanced high-performance tactical fighter aircraft and space vehicles, variable-cycle gas turbine engines, or air and ground transportation systems. *Impulsive and Hybrid Dynamical Systems* goes beyond similar treatments by developing invariant set stability theorems, partial stability, Lagrange stability, boundedness, ultimate boundedness, dissipativity theory, vector dissipativity theory, energy-based hybrid control, optimal control, disturbance rejection control, and robust control for nonlinear impulsive and hybrid dynamical systems. A major contribution to mathematical system theory and control system theory, this book is written from a system-theoretic point of view with the highest standards of exposition and rigor. It is intended for graduate students, researchers, and practitioners of engineering and applied mathematics as well as computer scientists, physicists, and other scientists who seek a fundamental understanding of the rich dynamical behavior of impulsive and hybrid dynamical systems.
