1.	Record Nr.	UNINA9910780928903321
	Titolo	Analysis and control of nonlinear systems with stationary sets [[electronic resource]] : time-domain and frequency-domain methods / / Jinzhi Wang ... [et al.]
	Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, c2009
	ISBN	1-282-44145-0 9786612441455 981-281-471-X
	Descrizione fisica	1 online resource (334 p.)
	Altri autori (Persone)	WangJinzhi
	Disciplina	515
	Soggetti	Nonlinear control theory Set theory
	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. 295-308) and index.
	Nota di contenuto	Preface; Contents; Notation and Symbols; 1. Linear Systems and Linear Matrix Inequalities; 2. LMI Approach to H1 Control; 3. Analysis and Control of Positive Real Systems; 4. Absolute Stability and Dichotomy of Lur'e Systems; 5. Pendulum-like Feedback Systems; 6. Controller Design for a Class of Pendulum-like Systems; 7. Controller Designs for Systems with Input Nonlinearities; 8. Analysis and Control for Uncertain Feedback Nonlinear Systems; 9. Control of Periodic Oscillations in Nonlinear Systems; 10. Interconnected Systems; 11. Chua's Circuit; Bibliography; Index
	Sommario/riassunto	This book presents the analysis as well as methods based on the global properties of systems with stationary sets in a unified time-domain and frequency-domain framework. The focus is on multi-input and multi-output systems, compared to previous publications which considered only single-input and single-output systems. The control methods presented in this book will be valuable for research on nonlinear systems with stationary sets.