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	Titolo	2: L-O / W. Pape, G. Benseler
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	Autore	Bernal Miguel
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	Collana	Studies in Systems, Decision and Control, , 2198-4190 ; ; 408
	Disciplina	629.8312 629.836
	Soggetti	Automatic control Mathematical optimization System theory Control theory Robust statistics Control and Systems Theory Optimization Systems Theory, Control System Robustness
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Introduction -- Problems to be Solved and Scope of the Book -- Modeling via Convex Structures -- Stability Analysis -- State Feedback -- Performance, Robustness, Observation, and Output Feedback -- Conclusions and Perspectives.
Sommario/riassunto	This book presents a modern perspective on the modelling, analysis, and synthesis ideas behind convex-optimisation-based control of nonlinear systems: it embeds them in models with convex structures. Analysis and Synthesis of Nonlinear Control Systems begins with an introduction to the topic and a discussion of the problems to be solved. It then explores modelling via convex structures, including quasi-linear parameter-varying, Takagi–Sugeno models, and linear fractional transformation structures. The authors cover stability analysis, addressing Lyapunov functions and the stability of polynomial models, as well as the performance and robustness of the models. With detailed examples, simulations, and programming code, this book will be useful to instructors, researchers, and graduate students interested in nonlinear control systems.