1.	Record Nr.	UNINA9910483040503321
	Autore	Zhang Weicun
	Titolo	Virtual equivalent system approach for stability analysis of model-based control systems / / Weicun Zhang, Qing Li
	Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2021
	ISBN	981-15-5538-9
	Edizione	[1st edition 2021.]
	Descrizione fisica	1 online resource (XIII, 168 p. 100 illus., 15 illus. in color.)
	Disciplina	629.8
	Soggetti	Automatic control
		Signal processing
		Image processing
		Speech processing systems
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Motivation and Contents of the Monograph.-Stability and Convergence Analysis of Self-Tuning Control Systems -- Further Results On Stability and Convergence of Self-Tuning Control Systems -- Stable Weighted Multiple Model Adaptive Control: Continuous-Time Plant -- Stable Weighted Multiple Model Adaptive Control: Discrete-Time Stochastic Plant -- Further Results on Stable Weighted Multiple Model Adaptive Control: Discrete-Time Stochastic Plant -- Stability of Continuous-Time T-S Model Based Fuzzy Control Systems -- Appendix A Lemma and proofs for Chapter 2 -- Appendix B Lemma and Proofs for Chapter 4 -- Appendix C Lemma and proofs for Chapter 6 -- Appendix D Lemma and proofs for Chapter 7.
	Sommario/riassunto	This book puts forward the concept of a virtual equivalent system (VES) based on theoretical analysis and simulation results. The new concept will facilitate the development of a unied framework for analyzing the stability and convergence of self-tuning control (STC) systems, and potentially, of all adaptive control systems. The book then shows that a time-varying STC system can be converted into a time-invariant system using a certain nonlinear compensation signal, which reduces the complexity and diculty of stability and convergence analysis. In closing, the VES concept and methodology are used to assess the

stability of multiple model adaptive control (MMAC) systems and T-S model-based fuzzy control systems.

2.
Record Nr.	UNINA9910346930403321
Autore	Kerdoncuff Pierre
Titolo	Modellierung und Bewertung von Prozessketten zur Herstellung von Biokraftstoffen der zweiten Generation
Pubbl/distr/stampa	KIT Scientific Publishing, 2008
ISBN	1000009317
Descrizione fisica	1 electronic resource (XIV, 221 p.)
Soggetti	Physics
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	In der vorliegenden Arbeit wird eine Methodik zur techno-ökonomischen und ökologischen Analyse und Bewertung von Prozessketten zur Herstellung synthetischer Kraftstoffe vorgestellt. Die Methodik kann in einer frühen Planungsphase angewendet werden und schließt eine Standortplanung zur Ausarbeitung und Bewertung von Realisierungsszenarien für ein festgelegtes Zielgebiet ein. Sie wird anhand ausgewählter Szenarien zur Realisierung einer Fischer-Tropsch-Synthese in Baden-Württemberg dargestellt