

1. Record Nr.	UNINA9910484387503321
Autore	Fei Zhongyang
Titolo	Analysis and Synthesis for Discrete-Time Switched Systems : A Quasi-Time-Dependent Method / / by Zhongyang Fei, Shuang Shi, Peng Shi
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-25812-2
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (212 pages) : illustrations (some color)
Collana	Studies in Systems, Decision and Control, , 2198-4190 ; ; 244
Disciplina	003.83
Soggetti	Control engineering System theory Control theory Control and Systems Theory Systems Theory, Control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Introduction -- Stability Analysis -- Weighted 2-Gain Analysis -- H Control -- H Filtering -- Asynchronous Control and Filtering -- Reachable Set Estimation -- Finite-Time Control and Filtering -- Stability and 2-Gain Analysis -- H Control -- H Filtering -- Finite-time Control and Filtering -- Index.
Sommario/riassunto	This book presents recent theoretical advances in the analysis and synthesis of discrete-time switched systems under the time-dependent switching scheme, including stability and disturbance attenuation performance analysis, control and filtering, asynchronous switching, finite-time analysis and synthesis, and reachable set estimation. It discusses time-scheduled technology, which can achieve a better performance and reduce conservatism compared with the traditional time-independent approach. Serving as a reference resource for researchers and engineers in the system and control community, it is also useful for graduate and undergraduate students interested in switched systems and their applications.