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| Edizione | [1st edition 2020.] |
| Descrizione fisica | 1 online resource (212 pages) : illustrations (some color) |
| Collana | Studies in Systems, Decision and Control, , 2198-4182 ; ; 244 |
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| Soggetti | Discrete-time systems Switching theory Automatic control System theory |
| Lingua di pubblicazione | Inglese |
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| 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. |