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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.