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Nota di contenuto	 Sliding Mode Control of Uncertain Parameter-Switching Hybrid Systems; Contents; Series Preface; Preface; Acknowledgments; Abbreviations and Notations; Abbreviations; Notations; 1 Introduction; 1.1 Sliding Mode Control; 1.1.1 Fundamental Theory of SMC; 1.1.2 Overview of SMC Methodologies; 1.2 Uncertain Parameter-Switching Hybrid Systems; 1.2.1 Analysis and Synthesis of Switched Hybrid Systems; 1.2.2 Analysis and Synthesis of Markovian Jump Linear Systems; 1.3 Contribution of the Book; 1.4 Outline of the Book; Part One SMC of Markovian Jump Singular Systems 2 State Estimation and SMC of Markovian Jump Singular Systems2.1 Introduction; 2.2 System Description and Preliminaries; 2.3 Stochastic Stability Analysis; 2.4 Main Results; 2.4.1 Observer and SMC Law Design; 2.4.2 Sliding Mode Dynamics Analysis; 2.5 Illustrative Example; 2.6 Conclusion; 3 Optimal SMC of Markovian Jump Singular Systems with Time Delay; 3.1 Introduction; 3.2 System Description and Preliminaries; 3.3 Bounded L2 Gain Performance Analysis; 3.4 Main Results; 3.4.1 Sliding Mode Dynamics Analysis; 3.4.2 SMC Law Design; 3.5 Illustrative Example; 3.6 Conclusion 4 SMC of Markovian Jump Singular Systems with Stochastic Perturbation4.1 Introduction; 4.2 System Description and Preliminaries; 4.3 Integral SMC; 4.3.1 Sliding Mode Dynamics Analysis; 4.3.2 SMC Law Design; 4.4 Optimal Integral SMC; 4.4.1 Performance Analysis and SMC

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	Law Design; 4.4.2 Computational Algorithm; 4.5 Illustrative Example; 4.6 Conclusion; Part Two SMC of Switched State-Delayed Hybrid Systems; 5 Stability and Stabilization of Switched State-Delayed Hybrid Systems; 5.1 Introduction; 5.2 Continuous-Time Systems; 5.2.1 System Description; 5.2.2 Main Results 7.2 System Description and Preliminaries7.3 Main Results; 7.3.1 Sliding Mode Dynamics Analysis; 7.3.2 SMC Law Design; 7.4 Illustrative Example; 7.5 Conclusion; 8 SMC of Switched State-Delayed Hybrid Systems: Discrete-Time Case; 8.1 Introduction; 8.2 System Description and Preliminaries; 8.3 Main Results; 8.3.1 Sliding Mode Dynamics Analysis; 8.3.2 SMC Law Design; 8.4 Illustrative Example; 8.5 Conclusion; Part Three SMC of Switched Stochastic Hybrid Systems; 9 Control of Switched Stochastic Hybrid Systems: Continuous-Time Case; 9.1 Introduction; 9.2 System Description and Preliminaries 9.3 Stability Analysis and Stabilization
Sommario/riassunto	Presents new, state-of-the-art sliding mode control (SMC) methodologies for uncertain parameter-switching hybrid systems Sliding Mode Control of Uncertain Parameter-Switching Hybrid Systems presentsnew, state-of-the-art sliding mode control (SMC) methodologies for uncertain parameter-switching hybrid systems (including Markovian jump systems, switched hybrid systems, singular systems, stochastic systems and time-delay systems). The first part of this book establishes a unified framework for SMC of Markovian jump singular systems and proposes new SMC methodologies based on the analysis resul