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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction -- Switched Nonlinear Systems with Partial Unstable Modes -- Switched Nonlinear Systems with All Unstable Modes -- Switched Nonlinear Systems with Varying Systems -- Switched Nonlinear Systems with Time-Varying Parameters -- Switched Nonlinear Systems with Distributed Parameters -- Conclusion and Future Research Directions.
Sommario/riassunto	This book provides its reader with a good understanding of the stabilization of switched nonlinear systems (SNS), systems that are of practical use in diverse situations: design of fault-tolerant systems in space- and aircraft; traffic control; and heat propagation control of semiconductor power chips. The practical background is emphasized throughout the book; interesting practical examples frequently illustrate the theoretical results with aircraft and spacecraft given particular prominence. Stabilization of Switched Nonlinear Systems with

Unstable Modes treats several different subclasses of SNS according to the characteristics of the individual system (time-varying and distributed parameters, for example), the state composition of individual modes and the degree and distribution of instability in its various modes. Achievement and maintenance of stability across the system as a whole is bolstered by trading off between individual modes which may be either stable or unstable, or by exploiting areas of partial stability within all the unstable modes. The book can be used as a reference for academic research on switched systems or used by graduate students of control theory and engineering. Readers should have studied linear and nonlinear system theory, and have some knowledge of switched and hybrid systems to get the most from this monograph.
