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Autore	COLLISON, Robert Lewis.
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2. Record Nr.	UNINA9910897991203321
Autore	Luo Albert C. J.
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Nota di contenuto	Self and Product Cubic Systems -- Double-saddles, Third-order Saddle nodes -- Vertical Saddle-node Series and Switching Dynamics -- Saddle-nodes and third-order Saddles Source and Sink -- Simple equilibrium networks and switching dynamics.
Sommario/riassunto	<p>This book is the thirteenth of 15 related monographs on Cubic Dynamical Systems, discusses self- and product-cubic systems with a crossing-linear and self-quadratic products vector field. Equilibrium series with flow singularity are presented and the corresponding switching bifurcations are discussed through up-down saddles, third-order concave-source (sink), and up-down-to-down-up saddles infinite-equilibriums. The author discusses how equilibrium networks with paralleled hyperbolic and hyperbolic-secant flows exist in such cubic systems, and the corresponding switching bifurcations obtained through the inflection-source and sink infinite-equilibriums. In such cubic systems, the appearing bifurcations are: saddle-source (sink) hyperbolic-to-hyperbolic-secant flows double-saddle third-order saddle, sink and source third-order saddle-source (sink) Develops a theory of self and product cubic systems with a crossing-linear and self-quadratic products vector field; Presents equilibrium networks with paralleled hyperbolic and hyperbolic-secant flows with switching by up-down saddles; Shows equilibrium appearing bifurcations of various saddles, sinks, and flows.</p>