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| Autore | Luo Albert C. J |
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| Disciplina | 003 |
| Soggetti | System theory<br>Algebraic fields<br>Polynomials<br>Dynamics<br>Differential equations<br>Complex Systems<br>Field Theory and Polynomials<br>Dynamical Systems<br>Differential Equations |
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| Nota di contenuto | Constant and Product Polynomial Systems -- Proof of Theorem 1.1 -- Singular flows bifurcaions and networks. |
| Sommario/riassunto | This book is a monograph about 1-dimensional flow arrays and bifurcations in constant and product polynomial systems. The 1-dimensional flows and the corresponding bifurcation dynamics are discussed. The singular hyperbolic and hyperbolic-secant flows are presented, and the singular hyperbolic-to-hyperbolic-secant flows are discussed. The singular inflection source, sink and upper, and lower-saddle flows are presented. The corresponding appearing and switching bifurcations are presented for the hyperbolic and hyperbolic-secant networks, and singular flows networks. The corresponding theorem is presented, and the proof of theorem is given. Based on the singular flows, the corresponding hyperbolic and hyperbolic-secant |

flows are illustrated for a better understanding of the dynamics of constant and product polynomial systems.