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9.1. The reduction theorems. The Lyapunov functions
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; 10.1. The reduction of the Poincare map. Lyapunov functions
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Chapter 11. LOCAL BIFURCATIONS ON THE ROUTE OVER STABILITY
BOUNDARIES

Sommario/riassunto

Bifurcation and chaos has dominated research in nonlinear dynamics for over two decades, and numerous introductory and advanced books have been published on this subject. There remains, however, a dire need for a textbook which provides a pedagogically appealing yet rigorous mathematical bridge between these two disparate levels of exposition. This book has been written to serve that unfulfilled need. Following the footsteps of Poincare, and the renowned Andronov school of nonlinear oscillations, this book focuses on the *qualitative* study of *high-dimensional* nonlinear dynamical
