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Titolo	Methods of qualitative theory in nonlinear dynamics . Part II [[electronic resource] /] / Leonid P. Shilnikov ... [et al.]
Pubbl/distr/stampa	Singapore ; ; River Edge, NJ, : World Scientific, 2001
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Descrizione fisica	1 online resource (591 p.)
Collana	World scientific series on nonlinear science. Series A, Monographs and treatises ; ; 5
Altri autori (Persone)	ShilnikovL. P
Disciplina	514.74 514/.74 620.10401515355
Soggetti	Nonlinear theories Nonlinear mechanics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Contents ; Introduction to Part II ; Chapter 7. STRUCTURALLY STABLE SYSTEMS ; 7.1. Rough systems on a plane. Andronov-Pontryagin theorem ; 7.2. The set of center motions ; 7.3. General classification of center motions ; 7.4. Remarks on roughness of high-order dynamical systems ; 7.5. Morse-Smale systems ; 7.6. Some properties of Morse-Smale systems ; Chapter 8. BIFURCATIONS OF DYNAMICAL SYSTEMS ; 8.1. Systems of first degree of non-roughness ; 8.2. Remarks on bifurcations of multi-dimensional systems ; 8.3. Structurally unstable homoclinic and heteroclinic orbits. Moduli of topological equivalence ; 8.4. Bifurcations in finite-parameter families of systems. Andronov's setup ; Chapter 9. THE BEHAVIOR OF DYNAMICAL SYSTEMS ON STABILITY BOUNDARIES OF

EQUILIBRIUM STATES

9.1. The reduction theorems. The Lyapunov functions

9.2. The first critical case ; 9.3. The second

critical case ; Chapter 10. THE BEHAVIOR OF
DYNAMICAL SYSTEMS ON STABILITY BOUNDARIES OF PERIODIC
TRAJECTORIES

; 10.1. The reduction of the Poincare map. Lyapunov functions

10.2. The first critical case 10.3. The second

critical case ; 10.4. The third critical case. Weak
resonances ; 10.5. Strong resonances

; 10.6. Passage through strong resonance on stability boundary

; 10.7. Additional remarks on resonances

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

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ISBN	3-030-92916-7
Descrizione fisica	1 online resource (236 pages)
Collana	Lecture Notes in Computer Science ; ; 13072
Disciplina	004
Soggetti	Cloud computing Computational grids (Computer systems)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia