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| | ISBN | 1-281-90587-9 |
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| | Descrizione fisica | 1 online resource (238 p.) |
| | Collana | World Scientific series on nonlinear science |
| | Disciplina | 515.39 |
| | Soggetti | Chaotic behavior in systems |
| | | Differentiable dynamical systems |
| | | Nonlinear control theory |
| | | Electronic books. |
| | Lingua di pubblicazione | Inglese |
| | Formato | Materiale a stampa |
| | Livello bibliografico | Monografia |
| | Note generali | Description based upon print version of record. |
| | Nota di bibliografia | Includes bibliographical references and index. |
| | Nota di contenuto | Preface; CONTENTS; 1 Introduction; 2 Theoretical Approach; 3 Physical Mechanisms; 4 Applications: Low-dimensional systems; 5 Applications: High-dimensional systems; 6 Further Remarks and Open Problems; INDEX |
| | Sommario/riassunto | This monograph presents a reasonably rigorous theory of a highly relevant chaos control method: suppression-enhancement of chaos by weak periodic excitations in low-dimensional, dissipative and non-autonomous systems. The theory provides analytical estimates of the ranges of parameters of the chaos-controlling excitation for suppression-enhancement of the initial chaos. The important applications of the theory presented in the book include: (1) control of chaotic escape from a potential well; (2) suppression of chaos in a driven Josephson junction; (3) control of chaotic solitons in Frenkel-Ko |