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| Autore | Atkinson, Geoffroy |
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| Pubbl/distr/stampa | Paris : Libraire E. Droz, 1935 |
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| Autore | Wu Chai Wah |
| Titolo | Synchronization in coupled chaotic circuits and systems [[electronic resource] /] / Chai Wah Wu |
| Pubbl/distr/stampa | River Edge, N.J., : World Scientific, c2002 |
| ISBN | 981-277-842-X |
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| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references (p. 165-172) and index. |
| Nota di contenuto | Contents ; Preface ; Chapter 1 Introduction
; Chapter 2 Synchronization in Two Coupled Chaotic Systems
; 2.1 Pecora-Carroll subsystem decomposition
; 2.2 Separable additive coupling ; 2.3 |

Synchronization and stability ; 2.3.1 Absolute stability ; 2.3.2 Lipschitz nonlinear systems
 2.3.3 Circuit theoretical criteria for asymptotical stability
 2.4 Communication and signal processing via synchronization of chaotic systems ;
 2.5 Synchronization of nonautonomous systems
 ; 2.5.1 Unidirectional synchronization scheme for nonautonomous systems
 2.5.2 Mutual coupling synchronization scheme for nonautonomous systems 2.5.3
 Synchronization between different systems
 ; 2.5.4 Synchronizing nonautonomous systems as communication systems ; 2.6
 Synchronization via a scalar signal
 2.6.1 Applications of scalar synchronization to chaotic communication system 2.7
 Adaptive synchronization ; 2.7.1 A general adaptive scheme ; 2.7.2 Two coupled nonlinear systems with linear parameters
 ; 2.7.3 Two coupled nonlinear systems with multiplicative parameters
 ; 2.7.4 Examples
 2.7.5 A generalization of the scheme in Eq. (2.35)
 2.7.6 Adaptive observers ; 2.8 Discrete-time systems ; 2.9 Further reading ;
 Chapter 3 Synchronization in Coupled Arrays of Chaotic Systems
 ; 3.1 Uniform linear static coupling ; 3.1.1 G is normal ; 3.1.2 G is symmetric
 3.1.3 General G

Sommario/riassunto

This invaluable book studies synchronization of coupled chaotic circuits and systems, as well as its applications. It shows how one can use stability results in nonlinear control to derive synchronization criteria for coupled chaotic circuits and systems. It also discusses the use of Lyapunov exponents in deriving synchronization criteria. Both the case of two coupled systems and the case of arbitrarily coupled arrays of systems are considered. The book examines how synchronization properties in arrays of coupled systems are dependent on graph-theoretical properties of the underlying coupling
