

1. Record Nr.	UNINA9910815699503321
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Titolo	Synchronization in complex networks of nonlinear dynamical systems / / Chai Wah Wu
Pubbl/distr/stampa	New Jersey, : World Scientific, c2007
ISBN	1-281-91890-3 9786611918903 981-270-974-6
Edizione	[1st ed.]
Descrizione fisica	1 online resource (xii, 155 p.) : ill
Disciplina	515.35
Soggetti	Differentiable dynamical systems System analysis Nonlinear theories Synchronization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (p. 143-151) and index.
Nota di contenuto	Graphs, Networks, Laplacian Matrices and Algebraic Connectivity; Graph Models; Synchronization in Networks of Nonlinear Continuous- Time Dynamical Systems; Synchronization in Networks of Coupled Discrete-Time Systems; Synchronization in Network of Systems with Linear Dynamics; Agreement and Consensus Problems in Groups of Interacting Agents.
Sommario/riassunto	Brings together two research areas: synchronization in coupled nonlinear systems and complex networks, and study conditions under which a complex network of dynamical systems synchronizes. This book introduces ideas from systems and graph theory, and linear algebra and synergy between them that are necessary to derive synchronization conditions.