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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.