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   Descrizione fisica   1 online resource (244 p.)

   Collana   Nonlinear Systems and Complexity, , 2195-9994 ; ; 3

   Disciplina   515.39

   Soggetti   Computational complexity
                        Physics
                        Dynamics
                        Ergodic theory
                        Complexity
                        Applications of Graph Theory and Complex Networks
                        Dynamical Systems and Ergodic Theory

   Lingua di pubblicazione   Inglese

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   Livello bibliografico   Monografia

   Note generali   Description based upon print version of record.

   Nota di bibliografia Includes bibliographical references and index.

   Nota di contenuto   Introduction -- Discontinuity and Local Singularity -- Single Constraint
                        Synchronization -- Multiple Constraint Synchronization -- Function
                        Synchronization -- Discrete Systems Synchronization.

   Sommario/riassunto   Dynamical System Synchronization (DSS) meticulously presents for the
                        first time the theory of dynamical systems synchronization based on
                        the local singularity theory of discontinuous dynamical systems. The
                        book details the sufficient and necessary conditions for dynamical
                        systems synchronizations, through extensive mathematical expression.
                        Techniques for engineering implementation of DSS are clearly
                        presented compared with the existing techniques. This book
                        also: Presents novel concepts and methods for dynamical system
                        synchronization Extends beyond the Lyapunov theory for dynamical
                        system synchronization Introduces companion and synchronization of
                        discrete dynamical systems Includes local singularity theory for
                        discontinuous dynamical systems Covers the invariant domains of
                        synchronization Features more than 75 illustrations Dynamical System
                        Synchronization is an ideal book for those interested in better
                        understanding new concepts and methodology for dynamical system

synchronization, local singularity theory for discontinuous dynamical systems, distinct dynamical system synchronization, and invariant domains of synchronization.