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Descrizione fisica	1 online resource (XII, 318 p.)
Collana	CMS Books in Mathematics, Ouvrages de mathématiques de la SMC, , 1613-5237
Disciplina	519
Soggetti	System theory Statistical physics Biomathematics Economics, Mathematical Systems Theory, Control Applications of Nonlinear Dynamics and Chaos Theory Mathematical and Computational Biology Quantitative Finance
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction.-Basic Theory -- Impulsive Biological Models -- Impulsive Models in Population Dynamics -- Impulsive Neural Networks -- Impulsive Models in Economics -- References -- Index.
Sommario/riassunto	Using the theory of impulsive differential equations, this book focuses on mathematical models which reflect current research in biology, population dynamics, neural networks and economics. The authors provide the basic background from the fundamental theory and give a systematic exposition of recent results related to the qualitative analysis of impulsive mathematical models. Consisting of six chapters, the book presents many applicable techniques, making them available in a single source easily accessible to researchers interested in mathematical models and their applications. Serving as a valuable reference, this text is addressed to a wide audience of professionals, including mathematicians, applied researchers and practitioners.

