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Titolo	Applied Nonautonomous and Random Dynamical Systems : Applied Dynamical Systems / / by Tomás Caraballo, Xiaoying Han
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Nota di contenuto	1 Introduction -- 2 Autonomous dynamical systems. - 3 Nonautonomous dynamical systems -- 4 Random dynamical - References .
Sommario/riassunto	This book offers an introduction to the theory of non-autonomous and stochastic dynamical systems, with a focus on the importance of the theory in the Applied Sciences. It starts by discussing the basic concepts from the theory of autonomous dynamical systems, which are easier to understand and can be used as the motivation for the non-autonomous and stochastic situations. The book subsequently establishes a framework for non-autonomous dynamical systems, and in particular describes the various approaches currently available for analysing the long-term behaviour of non-autonomous problems. Here, the major focus is on the novel theory of pullback attractors, which is still under development. In turn, the third part represents the

main body of the book, introducing the theory of random dynamical systems and random attractors and revealing how it may be a suitable candidate for handling realistic models with stochasticity. A discussion of future research directions serves to round out the coverage.