

1. Record Nr.	UNINA9910349328303321
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Titolo	An Introduction to Piecewise Smooth Dynamics // by Paul Glendinning, Mike R. Jeffrey ; edited by Elena Bossolini, J. Tomàs Lázaro, Josep M. Olm
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2019
ISBN	3-030-23689-7
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (vii, 129 pages) : illustrations
Collana	Advanced Courses in Mathematics - CRM Barcelona, , 2297-0312
Disciplina	531.11
Soggetti	Differential equations Dynamics Differential Equations Dynamical Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book is aimed at mathematicians, scientists, and engineers, studying models that involve a discontinuity, or studying the theory of nonsmooth systems for its own sake. It is divided in two complementary courses: piecewise smooth flows and maps, respectively. Starting from well known theoretical results, the authors bring the reader into the latest challenges in the field, going through stability analysis, bifurcation, singularities, decomposition theorems and an introduction to kneading theory. Both courses contain many examples which illustrate the theoretical concepts that are introduced.