1.	Record Nr.	UNINA9910165154603321
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	Titolo	Analytic Inequalities and Their Applications in PDEs / / by Yuming Qin
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2017
	ISBN	3-319-00831-5
	Edizione	[1st ed. 2017.]
	Descrizione fisica	1 online resource (XIII, 564 p.)
	Collana	Advances in Partial Differential Equations, , 2504-3587 ; ; 241
	Disciplina	515.353
	Soggetti	Partial differential equations
		Mechanics
		Operator theory
		Mathematical physics
		Partial Differential Equations
		Classical Mechanics
		Operator Theory
		Mathematical Physics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Preface -- 1 Integral Inequalities -- 2 Differential and Difference Inequalities -- 3 Global Attractors for Evolutionary Differential Equations -- 4 Global Existence and Uniqueness for Evolutionary PDEs -- 5 Asymptotic Behavior for Evolutionary PDEs.-6 Blow-up of Solutions to Evolutionary PDEs -- 7 Appendix: Basic Inequalities. .
	Sommario/riassunto	This book presents a number of analytic inequalities and their applications in partial differential equations. These include integral inequalities, differential inequalities and difference inequalities, which play a crucial role in establishing (uniform) bounds, global existence, large-time behavior, decay rates and blow-up of solutions to various classes of evolutionary differential equations. Summarizing results from a vast number of literature sources such as published papers, preprints and books, it categorizes inequalities in terms of their different properties.