Red	cord Nr.	UNINA9910819068203321
Aut	ore	Guo Boling
Titc	blo	Vanishing viscosity method : solutions to nonlinear systems / / by Boling Guo [and three others]
Put	obl/distr/stampa	Berlin ; ; Boston : , : Walter de Gruyter GmbH & Company, KG, , [2017] ©2017
ISB	BN	3-11-049257-1
		3-11-049427-2
Des	scrizione fisica	1 online resource (570 pages) : illustrations
Dis	ciplina	515/.353
Sog	ggetti	Viscosity solutions
Ling	gua di pubblicazione	Inglese
For	mato	Materiale a stampa
Live	ello bibliografico	Monografia
Not	ta di bibliografia	Includes bibliographical references.
Not	ta di contenuto	Frontmatter Preface Contents 1. Sobolev Space and Preliminaries 2. The Vanishing Viscosity Method of Some Nonlinear Evolution System 3. The Vanishing Viscosity Method of Quasilinear Hyperbolic System 4. Physical Viscosity and Viscosity of Difference Scheme 5. Convergence of Lax-Friedrichs Scheme, Godunov Scheme and Glimm Scheme 6. Electric-Magnetohydrodynamic Equations References
Sor	mmario/riassunto	The book summarizes several mathematical aspects of the vanishing viscosity method and considers its applications in studying dynamical systems such as dissipative systems, hyperbolic conversion systems and nonlinear dispersion systems. Including original research results, the book demonstrates how to use such methods to solve PDEs and is an essential reference for mathematicians, physicists and engineers working in nonlinear science. Contents:PrefaceSobolev Space and PreliminariesThe Vanishing Viscosity Method of Some Nonlinear Evolution SystemThe Vanishing Viscosity Method of Quasilinear Hyperbolic SystemPhysical Viscosity and Viscosity of Difference SchemeConvergence of Lax-Friedrichs Scheme, Godunov Scheme and Glimm SchemeElectric-Magnetohydrodynamic EquationsReferences

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