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| 1. Record Nr. | UNISA990000212830203316 |
| Autore | Nikolaev, Igor |
| Titolo | Flows on 2-dimensional manifolds : an overview / Igor Nikolaev, Evgeny Zhuzhoma |
| Pubbl/distr/stampa | Berlino : Springer-Verlag, copyr. 1999 |
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| Autore | Guo Boling |
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| Soggetti | Viscosity solutions |
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| Nota 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

Sommario/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 conservation 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: Preface Sobolev Space and Preliminaries The Vanishing Viscosity Method of Some Nonlinear Evolution System The Vanishing Viscosity Method of Quasilinear Hyperbolic System Physical Viscosity and Viscosity of Difference Scheme Convergence of Lax-Friedrichs Scheme, Godunov Scheme and Glimm Scheme Electric-Magnetohydrodynamic Equations References
