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	Autore	Qin Yuming
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	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Preliminary -- A One-dimensional Nonlinear Viscous and Heat-conductive Real Gas -- A One-dimensional Polytropic Viscous and Heat-conductive Gas -- A Polytropic Ideal Gas in Bounded Annular Domains in -- A Polytropic Viscous Gas with Cylinder Symmetry in -- One-dimensional Nonlinear Thermoviscoelasticity -- A Nonlinear One-dimensional Thermoelastic System with a Thermal Memory -- One-dimensional Thermoelastic Equations of Hyperbolic Type -- Blow-up for the Cauchy Problem in Nonlinear One-dimensional Thermoelasticity -- Large-Time Behavior of Energy in Multi-Dimensional Elasticity.
	Sommario/riassunto	This book presents recent results concerning the global existence in time, the large-time behaviour, decays of solutions and the existence of global attractors for some nonlinear parabolic-hyperbolic coupled systems of evolutionary partial differential equations arising from physics, mechanics and material science, such as the compressible Navier-Stokes equations, thermo(visco)elastic systems and elastic systems. To keep the book as self-contained as possible, the first chapter introduces to the needed results and tools from functional