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   Nota di contenuto   Frontmatter -- Contents -- Foreword -- Chapter 1 Preliminary -- Chapter 2 Global Existence and Exponential Stability of Spherically Symmetric Solutions to a Compressible Combustion Radiative and Reactive Gas -- Chapter 3 Global Existence, Uniqueness and Exponential Stability of Solutions for the One-Dimensional Navier–Stokes Equations with Capillarity -- Chapter 4 Exponential Stability of Solutions for the Compressible p-th Power Newtonian Fluid with Large Initial Data -- Chapter 5 Global Existence and Asymptotic Behavior of Spherically Symmetric Solutions for the Multi-Dimensional Infrarelativistic Model -- Chapter 6 Global Existence and Asymptotic Behavior of Cylindrically Symmetric Solutions for the 3D Infrarelativistic Model with Radiation -- Bibliography

   Sommario/riassunto   This book presents recent results on global well-posedness including asymptotic behavior of global solutions to some fluid models, such as combustion model of radiative gas, radiation hydrodynamics model, Navier-Stokes equations with capillary and p-th power Newtonian fluid model. These models have the similar structures, which consist of Navier-Stokes equations coupled with other equation or with other effects. Results collected in this book are established by the authors and their collaborators in recent years.