

Global well-posedness of nonlinear parabolic-hyperbolic coupled systems

Yuming, Qin, author

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Abstrak

This book presents recent results on nonlinear parabolic-hyperbolic coupled systems such as the compressible navier-stokes equations, and liquid crystal system. It summarizes recently published research by the authors and their collaborators, but also includes new and unpublished material. All models under consideration are built on compressible equations and liquid crystal systems. This type of partial differential equations arises not only in many fields of mathematics, but also in other branches of science such as physics, fluid dynamics and material science.