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**Initial boundary value problems for the equations of motion of compressible viscous and heat-conductive fluids.** (English) [Zbl 0543.76099](#)

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**Summary:** The equations of motion of compressible viscous and heat-conductive fluids are investigated for initial boundary value problems on the half space and on the exterior domain of any bounded region. The global solution in time is proved to exist uniquely and approach the stationary state as  $t \rightarrow \infty$ , provided the prescribed initial data and the external force are sufficiently small.

**MSC:**

**76N10** Existence, uniqueness, and regularity theory for compressible fluids and gas dynamics

Cited in **2** Reviews  
Cited in **273** Documents

**Keywords:**

viscous and heat-conductive; initial boundary value; half space; exterior domain of any bounded region; global solution in time; exist uniquely; approach the stationary state

**Full Text:** [DOI](#)

**References:**

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