

Nonequilibrium Thermodynamics

Tommaso Ruggeri (Università di Bologna)

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1. Balance laws, Constitutive equations, and Thermodynamic Principles.
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4. The Principles of Rational Extended Thermodynamics and Mathematical Structure.
5. Rarefied Monatomic Gases: qualitative analysis and comparison with experiments.
6. Polyatomic Rarefied and Dense Gases and Mixture of Gases.

References: T. Ruggeri and M. Sugiyama, Classical and Relativistic Rational Extended Thermodynamics of Gases, Springer 2021. <https://link.springer.com/book/10.1007%2F978-3-030-59144-1>