学术报告

Nonequilibrium thermodynamics and heat conduction

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报告摘要:

Thermostatics, temporal thermodynamics and nonequilibrium thermodynamics are surveyed from the point of view of evolution equations. The second law of thermodynamics is interpreted in the light of liapunov stability of equilibrium. A constructive application of the outlined mathematical structure leads to universal constitutive functions and evolution equations of dissipative physical systems. Several models of heat conduction are shown to demonstrate the method.

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