



Renjie Hua and Yuan Dong*

Revisit nonequilibrium thermodynamics based on thermomass theory and its applications in nanosystems

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Abstract: The development of non-Fourier heat conduction models is encouraged by the invalidity of Fourier's law to explain heat conduction in ultrafast or ultrasmall systems. The production of negative entropy will result from the combination of traditional nonequilibrium thermodynamics and non-Fourier heat conduction models. To resolve this paradox, extended irreversible thermodynamics (EIT) introduces a new state variable. However, real dynamics variables like force and momentum are still missing from nonequilibrium thermodynamics and EIT's generalized force and generalized flux. Heat has both mass and energy, according to thermomass theory and Einstein's mass-energy relation. The generalized heat conduction model containing non-Fourier effects was established by thermomass gas model. The thermomass theory reshapes the concept of the generalized force and flux, temperature, and entropy production in nonequilibrium thermodynamics and revisits the assumption for the linear regression of the fluctuations in Onsager reciprocal relation. The generalized heat conduction model based on thermomass theory has been used to study thermal conductivity, thermoelectric effect, and thermal rectification effect in nanosystems.

Keywords: non-Fourier heat conduction; nonequilibrium thermodynamics; extended irreversible thermodynamics; thermomass theory; generalized heat conduction model

1 Introduction

1.1 Local equilibrium thermodynamics

Equilibrium thermodynamics, developed in the 19th century, is concerned with the macroscopic properties of matter at near-equilibrium, but it only involves the initial and final equilibrium states and cannot describe the process itself. In 1931, Onsager [1] used fluctuation linear regression and the microscopic reversibility assumption to derive general reciprocity relationships that apply to transport processes like heat conduction, electrical conduction, and diffusion. In 1961, Prigogine [2], [3] discovered a dissipative system that operates in an environment with which it exchanges energy and matter, often far from thermodynamic equilibrium. These two pioneering works, along with a series of other developments [4], gave rise to local equilibrium thermodynamics, also known as classical irreversible thermodynamics (CIT).

In CIT, the entropy production obtains

$$\sigma^s = \sum_i J^s X^s \quad (1)$$

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Nonequilibrium Thermodynamics In Biophys

**Aharon Katzir-Katchalsky, Aharon
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Nonequilibrium Thermodynamics In Biophys:

Embracing the Song of Expression: An Mental Symphony within **Nonequilibrium Thermodynamics In Biophys**

In a global consumed by displays and the ceaseless chatter of fast communication, the melodic splendor and emotional symphony created by the written word often diminish into the back ground, eclipsed by the constant sound and disturbances that permeate our lives. Nevertheless, located within the pages of **Nonequilibrium Thermodynamics In Biophys** a charming literary treasure filled with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, this fascinating masterpiece conducts viewers on a mental trip, skillfully unraveling the hidden melodies and profound influence resonating within each carefully constructed phrase. Within the depths with this touching evaluation, we shall examine the book is main harmonies, analyze their enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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2023 24 academic school calendar fresno unified school district - May 31 2023

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jr day jan 15 lincoln s birthday feb