

## ON THERMODYNAMICS OF COMPLEX SYSTEMS

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**Key words:** thermodynamics, complex systems, thermoelasticity, internal variables.

Reported are the results presented at the workshop (May 3rd, 1993) held in the framework of the collaboration between the Department of Technical Mechanics, Budapest Technical University, and the Department of Mechanics, Institute of Cybernetics, Estonian Academy of Sciences. The month of intensive research was devoted to thermodynamics of complex systems.

Nonequilibrium thermodynamics has been formulated along two lines. The first is classical irreversible thermodynamics (CIT) and the second, rational thermodynamics (RT). A concise but transparent review of these theories is given by Lebon et al. [1]. However, both these theories have certain drawbacks including the paradox of infinite velocity. On the basis of earlier works by Cattaneo, Vernotte, Grad, and others, in the 1970s a new approach called extended irreversible thermodynamics (EIT) was proposed (see the references in [1]) that removed the paradox mentioned above and went beyond the hypothesis of local equilibrium. A little bit later hidden (internal) variable theory (HVT) was formed (see [2] and the references therein). Internal variables present some constraints in the sense of continuum mechanics and are not inertial, consequently their governing equations are mostly diffusion-reaction type. Despite the success of EIT and HVT, there are still many open problems related to complex and multiphase systems, nonlocality, etc. Not pretending to give an overview of these problems, we shall below discuss three aspects of thermodynamical theories, all related to basic mathematical models. The first deals with the consistency of heat conduction laws in thermoelasticity based on EIT and discusses the principles of equipresence and causality in the mathematical models. The second is related to basic concepts of thermodynamics of complex systems and, as a result, a modified equation of motion is derived. The third aspect is the role of internal variables in thermodynamics and their possible consequences on dynamics.

# Thermodynamics Of Complex Systems

**Xiang Xie**



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## **Table of Contents Thermodynamics Of Complex Systems**

1. Understanding the eBook Thermodynamics Of Complex Systems
  - The Rise of Digital Reading Thermodynamics Of Complex Systems
  - Advantages of eBooks Over Traditional Books
2. Identifying Thermodynamics Of Complex Systems
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Thermodynamics Of Complex Systems
  - User-Friendly Interface
4. Exploring eBook Recommendations from Thermodynamics Of Complex Systems
  - Personalized Recommendations
  - Thermodynamics Of Complex Systems User Reviews and Ratings
  - Thermodynamics Of Complex Systems and Bestseller Lists
5. Accessing Thermodynamics Of Complex Systems Free and Paid eBooks
  - Thermodynamics Of Complex Systems Public Domain eBooks
  - Thermodynamics Of Complex Systems eBook Subscription Services

- Thermodynamics Of Complex Systems Budget-Friendly Options
- 6. Navigating Thermodynamics Of Complex Systems eBook Formats
  - ePub, PDF, MOBI, and More
  - Thermodynamics Of Complex Systems Compatibility with Devices
  - Thermodynamics Of Complex Systems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Thermodynamics Of Complex Systems
  - Highlighting and Note-Taking Thermodynamics Of Complex Systems
  - Interactive Elements Thermodynamics Of Complex Systems
- 8. Staying Engaged with Thermodynamics Of Complex Systems
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Thermodynamics Of Complex Systems
- 9. Balancing eBooks and Physical Books Thermodynamics Of Complex Systems
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Thermodynamics Of Complex Systems
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Thermodynamics Of Complex Systems
  - Setting Reading Goals Thermodynamics Of Complex Systems
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Thermodynamics Of Complex Systems
  - Fact-Checking eBook Content of Thermodynamics Of Complex Systems
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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