

# Mathematical Aspects in Non-Equilibrium Thermodynamics

Róbert Kovács <sup>1,2,3,\*</sup> , Patrizia Rogolino <sup>4</sup>  and Francesco Oliveri <sup>4</sup> 

- <sup>1</sup> Department of Energy Engineering, Faculty of Mechanical Engineering, Budapest University of Technology and Economics, 1111 Budapest, Hungary
- <sup>2</sup> Department of Theoretical Physics, Wigner Research Center of Physics, Konkoly-Thege M. 29-33, 1121 Budapest, Hungary
- <sup>3</sup> Montavid Thermodynamic Research Group, 1112 Budapest, Hungary
- <sup>4</sup> Department of Mathematical and Computer Sciences, Physical Sciences and Earth Sciences, University of Messina, Viale F. Stagno d'Alcontres 31, 98166 Messina, Italy
- \* Correspondence: kovacs.robert@wigner.hu

## Introduction

Prof. Csaba Asszonyi, D.Sc. (1941–2022): The present Special Issue is dedicated to the memory of our beloved, respected friend, colleague and teacher, the late Professor Csaba Asszonyi.

The research field of professor Asszonyi was continuum mechanics and irreversible thermodynamics. He played a pioneering role in establishing the thermodynamical background of rock rheology and engineering rock mechanics. He was educated as a mechanical engineer, started his career as research engineer, and then performed coordinated mining research in Hungary. Later on, he went into the industry and became a company group leader. Seventeen years ago, he established the Montavid Thermodynamic Research Group.

His thinking focused on thermodynamic concepts, connecting an application-oriented, engineering attitude with deep theoretical ideas. He developed several industrial applications of thermodynamic rheology. His contributions included the extension of linear viscoelasticity with internal variables and the unification of classical rheological bodies in a thermodynamic framework. He was the author of more than two hundred articles, dozens of patents, and ten books. He refused honours and distinctions, and only at the end of his life became the honorary president of the Society for the Unity of Science and Technology.

The Special Issue “Mathematical Aspects in Non-equilibrium Thermodynamics” consists of five original research papers. Although the current topic has a long history, there are still numerous open questions regarding the structure of evolution equations, the corresponding thermodynamically compatible initial and boundary conditions, and also their relation to experimental and practical aspects. These five papers actually cover various recent and relevant topics such as optimization, finite time thermodynamics, the role of the second law in continuum physics, multi-component mixtures, and boundary conditions. We hope that this Special Issue will be able to play a role in further progress to come in the future.

In the paper “The Role of the Second Law of Thermodynamics in Continuum Physics: A Muschik and Ehrentraut Theorem Revisited” by V. A. Cimmelli and P. Rogolino [1], the authors revisited the second law of thermodynamics and how the entropy inequality plays a crucial role in the derivation of evolution equations, also providing local and global formulations of the second law. The classical results of Muschik and Ehrentraut are reformulated in the present modern mathematical context of second law, thus highlighting a few geometric aspects as an outcome. They also emphasized that the non-equilibrium concept of temperature and entropy far from equilibrium is not necessarily identical to the one close to equilibrium, and how these notions need further investigation.

The paper “Integrability of the Multi-Species TASEP with Species-Dependent Rates”, written by Eunghyun Lee [2], is related to totally asymmetrical simple exclusion processes; it



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# Some Aspects Of Non Equilibrium Thermody

**Wilbur C. Nelson**



## **Some Aspects Of Non Equilibrium Thermody:**

This book delves into Some Aspects Of Non Equilibrium Thermody. Some Aspects Of Non Equilibrium Thermody is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Some Aspects Of Non Equilibrium Thermody, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Some Aspects Of Non Equilibrium Thermody
    - Chapter 2: Essential Elements of Some Aspects Of Non Equilibrium Thermody
    - Chapter 3: Some Aspects Of Non Equilibrium Thermody in Everyday Life
    - Chapter 4: Some Aspects Of Non Equilibrium Thermody in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Some Aspects Of Non Equilibrium Thermody. The first chapter will explore what Some Aspects Of Non Equilibrium Thermody is, why Some Aspects Of Non Equilibrium Thermody is vital, and how to effectively learn about Some Aspects Of Non Equilibrium Thermody.
  3. In chapter 2, this book will delve into the foundational concepts of Some Aspects Of Non Equilibrium Thermody. This chapter will elucidate the essential principles that need to be understood to grasp Some Aspects Of Non Equilibrium Thermody in its entirety.
  4. In chapter 3, the author will examine the practical applications of Some Aspects Of Non Equilibrium Thermody in daily life. The third chapter will showcase real-world examples of how Some Aspects Of Non Equilibrium Thermody can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Some Aspects Of Non Equilibrium Thermody in specific contexts. The fourth chapter will explore how Some Aspects Of Non Equilibrium Thermody is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Some Aspects Of Non Equilibrium Thermody. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Some Aspects Of Non Equilibrium Thermody.

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