

Dissipative Structures and Weak Turbulence

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Abstract

We present a brief overview of the current understanding of temporal and spatio-temporal chaos, both termed *weak turbulence* according to the context [1]. The process which allows one to reduce the primitive problem to a low-dimensional dynamical system is discussed. It turns out to be appropriate as long as *confinement effects* are sufficiently strong to freeze the space dependence of unstable modes, hence temporal chaos only. Otherwise modulated patterns arise, yielding genuine space-time chaos. The corresponding theory rests on *envelope equations* providing a useful framework for weak turbulence in a globally super-critical setting. *Spatio-temporal intermittency* analyzed next is the relevant scenario in the sub-critical case. Finally, the connection with hydrodynamic turbulence and the more general relevance of some of the ideas developed here are examined.

1 On the 'nature' of turbulence

Turbulence presents itself as a wildly fluctuating flow regime the understanding of which is important for many fields of basic and applied research, as its mixing and transfer properties are strongly enhanced with respect to their molecular counterparts. Following the suggestion of Landau [2]a, one can think of turbulence as resulting from a superposition of an infinite number of oscillation modes (Fig. 1, top), the randomness of the regime arising from the absence of knowledge of the initial phase of each mode. However, as stressed originally by Ruelle and Takens [2]b, this idea of a mere superposition is in some sense too linear. In fact, nonlinear interactions among a small number of modes generically yield chaotic behavior characterized by a decay of correlations that more appropriately describes a turbulent regime (Fig. 1, bottom) [3].

The main consequence of this remark is to place the problem of the transition to turbulence into the mathematical setting of the theory of dynamical systems, i.e. systems of ordinary

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Table of Contents Dissipative Structures And Weak Turbulence

1. Understanding the eBook Dissipative Structures And Weak Turbulence
 - The Rise of Digital Reading Dissipative Structures And Weak Turbulence
 - Advantages of eBooks Over Traditional Books
2. Identifying Dissipative Structures And Weak Turbulence
 - 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 Dissipative Structures And Weak Turbulence
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dissipative Structures And Weak Turbulence
 - Personalized Recommendations
 - Dissipative Structures And Weak Turbulence User Reviews and Ratings
 - Dissipative Structures And Weak Turbulence and Bestseller Lists
5. Accessing Dissipative Structures And Weak Turbulence Free and Paid eBooks
 - Dissipative Structures And Weak Turbulence Public Domain eBooks
 - Dissipative Structures And Weak Turbulence eBook Subscription Services
 - Dissipative Structures And Weak Turbulence Budget-Friendly Options
6. Navigating Dissipative Structures And Weak Turbulence eBook Formats

- ePub, PDF, MOBI, and More
 - Dissipative Structures And Weak Turbulence Compatibility with Devices
 - Dissipative Structures And Weak Turbulence Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dissipative Structures And Weak Turbulence
 - Highlighting and Note-Taking Dissipative Structures And Weak Turbulence
 - Interactive Elements Dissipative Structures And Weak Turbulence
 8. Staying Engaged with Dissipative Structures And Weak Turbulence
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Dissipative Structures And Weak Turbulence
 9. Balancing eBooks and Physical Books Dissipative Structures And Weak Turbulence
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dissipative Structures And Weak Turbulence
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Dissipative Structures And Weak Turbulence
 - Setting Reading Goals Dissipative Structures And Weak Turbulence
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Dissipative Structures And Weak Turbulence
 - Fact-Checking eBook Content of Dissipative Structures And Weak Turbulence
 - 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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