

Discrete and Continuous: Two sides of the same?

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Abstract

How deep is the dividing line between discrete and continuous mathematics? Basic structures and methods of both sides of our science are quite different. But on a deeper level, there is a more solid connection than meets the eye.

1 Introduction

There is a rather clear dividing line between discrete and continuous mathematics. Continuous mathematics is classical, well established, with a rich variety of applications. Discrete mathematics grew out of puzzles and then is often identified with specific application areas like computer science or operations research. Basic structures and methods of both sides of our science are quite different (continuous mathematicians use limits; discrete mathematicians use induction).

This state of mathematics at this particular time, the turn of the millennium, is a product of strong intrinsic logic, but also of historical coincidence.

The main external source of mathematical problems is science, in particular physics. The traditional view is that space and time are continuous, and that the laws of nature are described by differential equations. There are, of course, exceptions: chemistry, statistical mechanics, and quantum physics are based on at least a certain degree of discreteness. But these discrete objects (molecules, atoms, elementary particles, Feynman graphs) live in the continuum of space and time. String theory tries to explain these discrete objects as singularities of a higher dimensional continuum.

Accordingly, the mathematics used in most applications is analysis, the real hard core of our science. But especially in newly developing sciences, discrete models are becoming more

Discrete And Continuous Two Sides Of The Same

Katrin Zwirgmaier



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Table of Contents Discrete And Continuous Two Sides Of The Same

1. Understanding the eBook Discrete And Continuous Two Sides Of The Same
 - The Rise of Digital Reading Discrete And Continuous Two Sides Of The Same
 - Advantages of eBooks Over Traditional Books
2. Identifying Discrete And Continuous Two Sides Of The Same
 - 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 a Discrete And Continuous Two Sides Of The Same
 - User-Friendly Interface
4. Exploring eBook Recommendations from Discrete And Continuous Two Sides Of The Same
 - Personalized Recommendations
 - Discrete And Continuous Two Sides Of The Same User Reviews and Ratings
 - Discrete And Continuous Two Sides Of The Same and Bestseller Lists
5. Accessing Discrete And Continuous Two Sides Of The Same Free and Paid eBooks
 - Discrete And Continuous Two Sides Of The Same Public Domain eBooks
 - Discrete And Continuous Two Sides Of The Same eBook Subscription Services
 - Discrete And Continuous Two Sides Of The Same Budget-Friendly Options

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