

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

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Discrete And Continuous Two Sides Of The Same:

This book delves into Discrete And Continuous Two Sides Of The Same. Discrete And Continuous Two Sides Of The Same is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Discrete And Continuous Two Sides Of The Same, encompassing both the fundamentals and more intricate discussions.

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

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