

LECTURE 26

Definition

For each t in the domain of r , a vector valued function, the unit tangent vector to C @ t is $T(t)$:

$$T(t) = \frac{r'(t)}{\|r'(t)\|}$$

we also know that $\|T(t)\| = 1$.



Definition

if r is a smooth parameterization of C , T is the unit tangent vector, and $T'(t) \neq 0$, the unit normal vector to C @ t noted $N(t)$ is

$$N(t) = \frac{T'(t)}{\|T'(t)\|}$$

this always points in the inwards direction of concavity

Example

Find unit tangent and unit normal vectors to the curve $r(t) = \langle 1+t, t^2 \rangle$ @ $-1, 0, 1$

tangent: $r'(t) = \langle 1, 2t \rangle$

$$\|r'(t)\| = \sqrt{1^2 + 4t^2} = \sqrt{4t^2 + 1} \quad T(t) = \left\langle \frac{1}{\sqrt{4t^2 + 1}}, \frac{2t}{\sqrt{4t^2 + 1}} \right\rangle$$

normal: $r''(t) = \langle 0, 2 \rangle$

$$\|r''(t)\| = 2$$

$$N(t) = \langle 0, 1 \rangle$$

Multivariable Calculus Notes

Ian Pickup



Multivariable Calculus Notes:

This book delves into Multivariable Calculus Notes. Multivariable Calculus Notes is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Multivariable Calculus Notes, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Multivariable Calculus Notes
 - Chapter 2: Essential Elements of Multivariable Calculus Notes
 - Chapter 3: Multivariable Calculus Notes in Everyday Life
 - Chapter 4: Multivariable Calculus Notes in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Multivariable Calculus Notes. The first chapter will explore what Multivariable Calculus Notes is, why Multivariable Calculus Notes is vital, and how to effectively learn about Multivariable Calculus Notes.
3. In chapter 2, this book will delve into the foundational concepts of Multivariable Calculus Notes. The second chapter will elucidate the essential principles that need to be understood to grasp Multivariable Calculus Notes in its entirety.
4. In chapter 3, the author will examine the practical applications of Multivariable Calculus Notes in daily life. The third chapter will showcase real-world examples of how Multivariable Calculus Notes can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Multivariable Calculus Notes in specific contexts. The fourth chapter will explore how Multivariable Calculus Notes is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Multivariable Calculus Notes. 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 Multivariable Calculus Notes.

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