

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

Camilla Rothe



Multivariable Calculus Notes:

Multivariable Calculus Notes Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Multivariable Calculus Notes**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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