

Gradient Function

1. $\vec{\nabla}(f + g) = \vec{\nabla}f + \vec{\nabla}g$
2. $\vec{\nabla}(cf) = c\vec{\nabla}f$, for any constant c
3. $\vec{\nabla}(fg) = f\vec{\nabla}g + g\vec{\nabla}f$
4. $\vec{\nabla}(f/g) = (g\vec{\nabla}f - f\vec{\nabla}g)/g^2$ at points \vec{x} where $g(\vec{x}) \neq 0$.
5. $\vec{\nabla}(\vec{F} \cdot \vec{G}) = \vec{F} \times (\vec{\nabla} \times \vec{G}) - (\vec{\nabla} \times \vec{F}) \times \vec{G} + (\vec{G} \cdot \vec{\nabla})\vec{F} + (\vec{F} \cdot \vec{\nabla})\vec{G}$

Divergence Function

6. $\vec{\nabla} \cdot (\vec{F} + \vec{G}) = \vec{\nabla} \cdot \vec{F} + \vec{\nabla} \cdot \vec{G}$
7. $\vec{\nabla} \cdot (c\vec{F}) = c\vec{\nabla} \cdot \vec{F}$, for any constant c
8. $\vec{\nabla} \cdot (f\vec{F}) = f\vec{\nabla} \cdot \vec{F} + \vec{F} \cdot \vec{\nabla}f$
9. $\vec{\nabla} \cdot (\vec{F} \times \vec{G}) = \vec{G} \cdot (\vec{\nabla} \times \vec{F}) - \vec{F} \cdot (\vec{\nabla} \times \vec{G})$

Part Ia Vector Calculus

Yan Bai



Part Ia Vector Calculus:

Reviewing **Part Ia Vector Calculus**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Part Ia Vector Calculus**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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