

11.1

Question 1:

Find $\int_C \mathbf{F} \cdot d\mathbf{r}$ for the vector field $\mathbf{F}(x, y, z) = (x^2 + y^2, xz, yz)$ and the curve C defined by the following parametric equations:

$$\mathbf{r}(t) = (t, t^2, t^3) \quad \text{for } 0 \leq t \leq 1.$$

Solution:

1. Compute the derivative of the position vector $\mathbf{r}(t)$ with respect to t .

$$\mathbf{r}'(t) = \frac{d}{dt} (t, t^2, t^3) = (1, 2t, 3t^2)$$

$$|\mathbf{r}'(t)| = \sqrt{1 + 4t^2 + 9t^4}$$

2. Evaluate the dot product $\mathbf{F}(\mathbf{r}(t)) \cdot \mathbf{r}'(t)$.

$\mathbf{F}(\mathbf{r}(t)) = (t^2 + t^4, t \cdot t^3, t^2 \cdot t^3) = (t^2 + t^4, t^4, t^5)$

$$\mathbf{F}(\mathbf{r}(t)) \cdot \mathbf{r}'(t) = (t^2 + t^4)(1) + t^4(2t) + t^5(3t^2)$$

$$= t^2 + t^4 + 2t^5 + 3t^7$$

$$\int_C \mathbf{F} \cdot d\mathbf{r} = \int_0^1 (t^2 + t^4 + 2t^5 + 3t^7) dt$$

11.2

Question 2:

Compute the surface area of the cylinder $x^2 + y^2 = 4$ for $0 \leq z \leq 5$.

$$\mathbf{r}(u, v) = (2 \cos u, 2 \sin u, v) \quad \text{for } 0 \leq u < 2\pi, 0 \leq v \leq 5$$

$$\mathbf{r}_u = (-2 \sin u, 2 \cos u, 0)$$

$$\mathbf{r}_v = (0, 0, 1)$$

Solution:

1. Compute the partial derivatives \mathbf{r}_u and \mathbf{r}_v .

$$\mathbf{r}_u = (-2 \sin u, 2 \cos u, 0)$$

$$\mathbf{r}_v = (0, 0, 1)$$

2. Compute the magnitude of the cross product $|\mathbf{r}_u \times \mathbf{r}_v|$.

$$\mathbf{r}_u \times \mathbf{r}_v = (2 \cos u, 2 \sin u, 0)$$

$$|\mathbf{r}_u \times \mathbf{r}_v| = \sqrt{(2 \cos u)^2 + (2 \sin u)^2} = 2$$

$$\text{Surface Area} = \int_0^5 \int_0^{2\pi} 2 \, du \, dv = 2 \int_0^5 2\pi \, dv = 4\pi \int_0^5 1 \, dv = 20\pi$$

11.3. Independence of Variables: Suppose u, v, w are functions of x, y, z defined by the equations $x^2 + y^2 + z^2 = 1$ and $x^2 + y^2 = 4z^2$. Compute $\frac{\partial u}{\partial x}$ at the point $(1, 1, 1)$ where $u = x^2 + y^2 + z^2$.

11.4

Measurements And Calculations Study Guide Answers

Lingsheng Yao



Measurements And Calculations Study Guide Answers:

Reviewing **Measurements And Calculations Study Guide Answers**: 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 really astonishing. Within the pages of "**Measurements And Calculations Study Guide Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt 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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