

## Unit - 4

### Multiple Integrals

1) Evaluate  $\int_2^4 \int_0^3 dx dy$

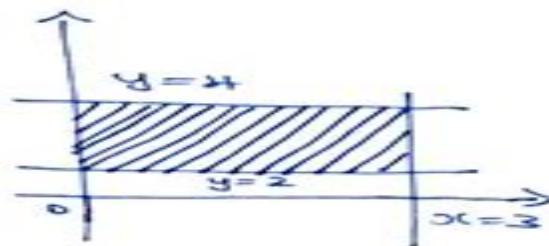
$$I = \int_2^4 \int_0^3 dx dy$$

$$I = \int_2^4 \left[ \int_0^3 dx \right] dy$$

$$I = \int_2^4 \left[ x \right]_0^3 dy$$

$$I = 3 \int_2^4 dy = 3 \left[ y \right]_2^4 = 3(4-2) = 3 \times 2$$

$$\boxed{I = 6}$$



2) Evaluate  $\int_0^4 \int_0^3 \int_0^2 e^{x+y+z} dx dy dz$

$$I = \int_0^4 \int_0^3 \int_0^2 e^{x+y+z} dx dy dz$$

$$I = \int_0^4 \int_0^3 \int_0^2 e^x e^y e^z dx dy dz$$

# Higher Engineering Mathematics Multiple Integral Solutions

**Patrick Vollmar**



**Higher Engineering Mathematics Multiple Integral Solutions:**

This book delves into Higher Engineering Mathematics Multiple Integral Solutions. Higher Engineering Mathematics Multiple Integral Solutions is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Higher Engineering Mathematics Multiple Integral Solutions, encompassing both the fundamentals and more intricate discussions.

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

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