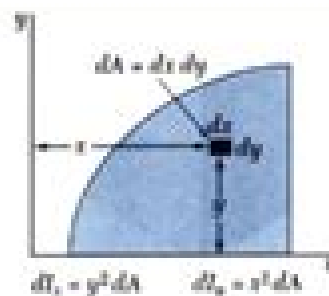


# Engineering Mechanics: Statics

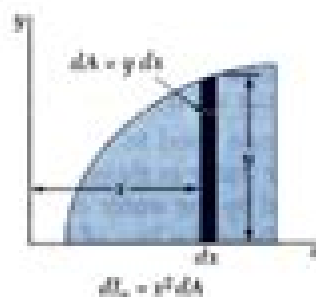
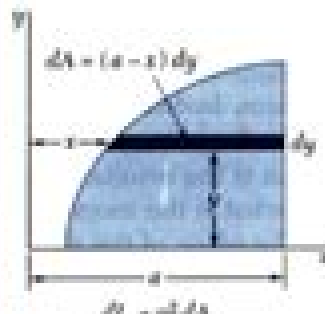
## Moment of Inertia of an Area by Integration



- Second moments or moments of inertia of an area with respect to the  $x$  and  $y$  axes,

$$I_x = \int y^2 dA \quad I_y = \int x^2 dA$$

- Evaluation of the integrals is simplified by choosing  $dA$  to be a thin strip parallel to one of the coordinate axes.

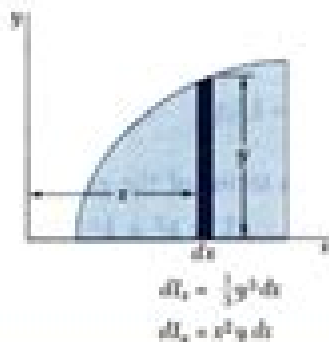
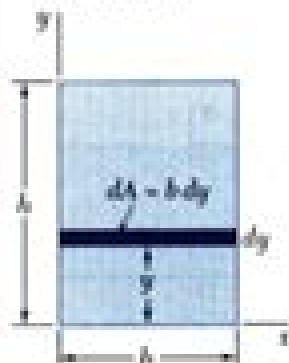


- For a rectangular area,

$$I_x = \int y^2 dA = \int_0^h y^2 b dy = \frac{1}{3} b h^3$$

- The formula for rectangular areas may also be applied to strips parallel to the axes,

$$dI_x = \frac{1}{3} y^3 dx \quad dI_y = x^2 dA = x^2 y dx$$



# Eng Mechanics Statics

**Peipei Pang**



## **Eng Mechanics Statics:**

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

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Eng Mechanics Statics
- Chapter 2: Essential Elements of Eng Mechanics Statics
- Chapter 3: Eng Mechanics Statics in Everyday Life
- Chapter 4: Eng Mechanics Statics in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Eng Mechanics Statics. This chapter will explore what Eng Mechanics Statics is, why Eng Mechanics Statics is vital, and how to effectively learn about Eng Mechanics Statics.
3. In chapter 2, the author will delve into the foundational concepts of Eng Mechanics Statics. This chapter will elucidate the essential principles that must be understood to grasp Eng Mechanics Statics in its entirety.
4. In chapter 3, the author will examine the practical applications of Eng Mechanics Statics in daily life. The third chapter will showcase real-world examples of how Eng Mechanics Statics can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Eng Mechanics Statics in specific contexts. The fourth chapter will explore how Eng Mechanics Statics is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Eng Mechanics Statics. This chapter will summarize the key points that have been discussed throughout the book.

The 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 Eng Mechanics Statics.

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