

CONCEPTUAL Physics PRACTICE PAGE

Chapter 8 Rotational Motion Banked Airplanes

An airplane banks as it turns along a horizontal circular path in the air. Except for the thrust of its engines and air resistance, the two significant forces on the plane are gravitational mg (vertical) and lift L (perpendicular to the wings).

Vector Component Analysis:

With a ruler and a pencil, resolve vector L into two perpendicular components, horizontal L_x and vertical L_y . Make these vectors dashed to distinguish them from L .

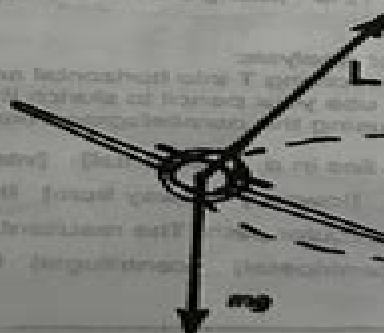
Circle the correct answers.

1. The velocity of the airplane at any instant is
[along the radius of] [tangent to] its circular path.
2. If L were somehow replaced with L_x and L_y ,
the airplane [would] [would not] behave the
same as being supported by L .
3. Since the airplane doesn't accelerate vertically, component L_y must be
[greater than] [less than] [equal and opposite to] mg .
4. Since the plane continues in circular motion, component L_x must equal [zero] [m^2/r]
and be a [centripetal] [centrifugal] [nonexistent] force. Furthermore, L_x is
[along the radius of] [tangent to] the circular path.

Vector Resultant Analysis:

5. Rather than resolving L into horizontal and
vertical components, use your pencil to
sketch the resultant of mg and L using the
parallelogram rule.
6. The resultant lies in a [horizontal] [vertical]
direction and [toward] [away from] the center
of the circular path. The resultant of mg and L is a
[centripetal] [centrifugal] force.
7. The resultant of mg and L is the same as [L_x] [L_y].

Challenge: Explain in your own words why the resultant of two vectors can be the same as a single component of one of them.



Conceptual Physics Practice Page Rotational Motion Torques

Jiyuan Zhang



Conceptual Physics Practice Page Rotational Motion Torques:

This book delves into Conceptual Physics Practice Page Rotational Motion Torques. Conceptual Physics Practice Page Rotational Motion Torques is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Conceptual Physics Practice Page Rotational Motion Torques, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Conceptual Physics Practice Page Rotational Motion Torques
 - Chapter 2: Essential Elements of Conceptual Physics Practice Page Rotational Motion Torques
 - Chapter 3: Conceptual Physics Practice Page Rotational Motion Torques in Everyday Life
 - Chapter 4: Conceptual Physics Practice Page Rotational Motion Torques in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Conceptual Physics Practice Page Rotational Motion Torques. The first chapter will explore what Conceptual Physics Practice Page Rotational Motion Torques is, why Conceptual Physics Practice Page Rotational Motion Torques is vital, and how to effectively learn about Conceptual Physics Practice Page Rotational Motion Torques.
 3. In chapter 2, this book will delve into the foundational concepts of Conceptual Physics Practice Page Rotational Motion Torques. The second chapter will elucidate the essential principles that need to be understood to grasp Conceptual Physics Practice Page Rotational Motion Torques in its entirety.
 4. In chapter 3, this book will examine the practical applications of Conceptual Physics Practice Page Rotational Motion Torques in daily life. The third chapter will showcase real-world examples of how Conceptual Physics Practice Page Rotational Motion Torques can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Conceptual Physics Practice Page Rotational Motion Torques in specific contexts. The fourth chapter will explore how Conceptual Physics Practice Page Rotational Motion Torques is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Conceptual Physics Practice Page Rotational Motion Torques. The final 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 Conceptual Physics Practice Page Rotational Motion Torques.

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Conceptual Physics Practice Page Rotational Motion Torques Introduction

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