

Harmonic Motion

Simple harmonic motion is any motion that is repetitive (doing the same thing over and over), and caused by a restoring force. Pendulums, bouncing springs, vibrating molecular structures, waves, etc. are all harmonic motion.



Simple harmonic motion goes back and forth, one direction.



A ball thrown into the air moves up and down. The energy isn't getting up and down. Actually, it is. Energy moves up and down, but it's not the same energy. It's different. It's different.



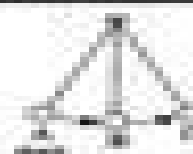
Remember there is a force that keeps the object in equilibrium (center of gravity). If a pendulum is displaced, gravity pulls it back to the center. Because it's in equilibrium, it goes back and forth, going back and forth.

Parts of Harmonic Motion

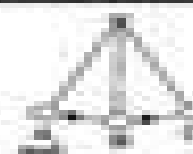
Period—the length of time of the motion, including all of the steps of the motion.

Amplitude—length of time for one cycle, from one end to the other.

Frequency—number of cycles per second or per minute. It's how many times it goes around.



From A to B is one half a cycle.



Amplitude is the distance from the center to the end of the cycle.

If it takes 2 seconds for the pendulum to go from A to B and back to A, the period is 2 seconds.



Mr. A. is a pendulum with a frequency of 1 Hz. Find its period.	
Find the Period	$T = 1/f$ $T = 1/1 \text{ Hz}$ $T = 1 \text{ sec}$

Mr. A. is a pendulum with a period of 1 second. Find its frequency.	
Find the Frequency	$f = 1/T$ $f = 1/1 \text{ sec}$ $f = 1 \text{ Hz}$

Amplitude—the maximum distance from the equilibrium point to the end of the motion. It's the distance from the center to the end of the cycle.



$\text{Amplitude} = \frac{1}{2}(\text{Height} - \text{Low})$

Graphing Harmonic Motion

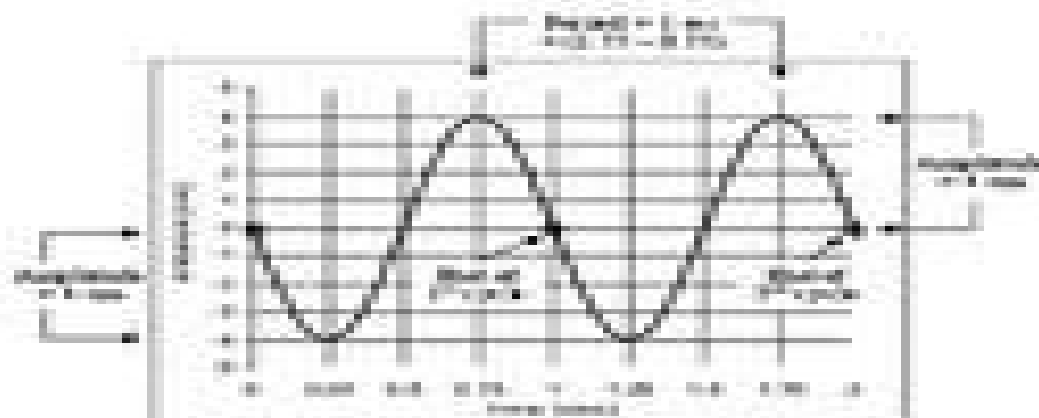
The graph shows the motion of the pendulum.

Period—the length of time of the motion, including all of the steps of the motion.

Amplitude—length of time for one cycle, from one end to the other.

Frequency—number of cycles per second or per minute.

Amplitude—the distance from the equilibrium point to the end of the motion. It's the distance from the center to the end of the cycle.



Skill Sheet 11 Harmonic Motion

Stanley A. Dennis, Leon Irving Thomas



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The book delves into Skill Sheet 11 Harmonic Motion. Skill Sheet 11 Harmonic Motion is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Skill Sheet 11 Harmonic Motion, encompassing both the fundamentals and more intricate discussions.

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

- Chapter 1: Introduction to Skill Sheet 11 Harmonic Motion
- Chapter 2: Essential Elements of Skill Sheet 11 Harmonic Motion
- Chapter 3: Skill Sheet 11 Harmonic Motion in Everyday Life
- Chapter 4: Skill Sheet 11 Harmonic Motion in Specific Contexts
- Chapter 5: Conclusion

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4. In chapter 3, the author will examine the practical applications of Skill Sheet 11 Harmonic Motion in daily life. The third chapter will showcase real-world examples of how Skill Sheet 11 Harmonic Motion can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Skill Sheet 11 Harmonic Motion in specific contexts. This chapter will explore how Skill Sheet 11 Harmonic Motion is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Skill Sheet 11 Harmonic Motion. 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 Skill Sheet 11 Harmonic Motion.

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