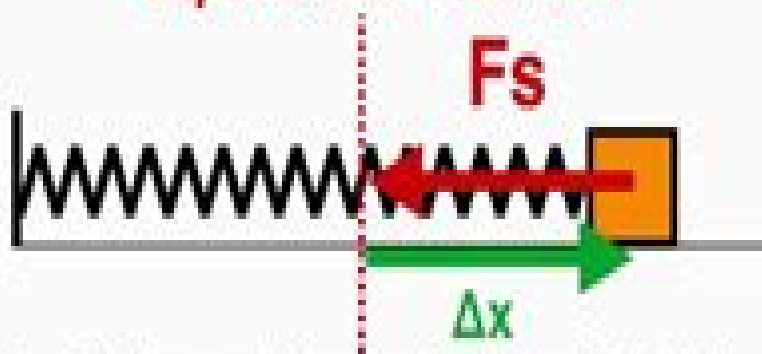


# Simple Harmonic Motion

Periodic motion around a central point of equilibrium where there is no net force. There is a restoring force that acts on the object that is linearly proportional to the displacement from the equilibrium position and acts in a direction opposite to that displacement.

## Spring

Equilibrium Position



$\Delta x$  = Displacement of spring from natural length. Always points away from spring's natural length position.

$F_s$  = Force applied by spring on object. Always points towards spring's natural length position.

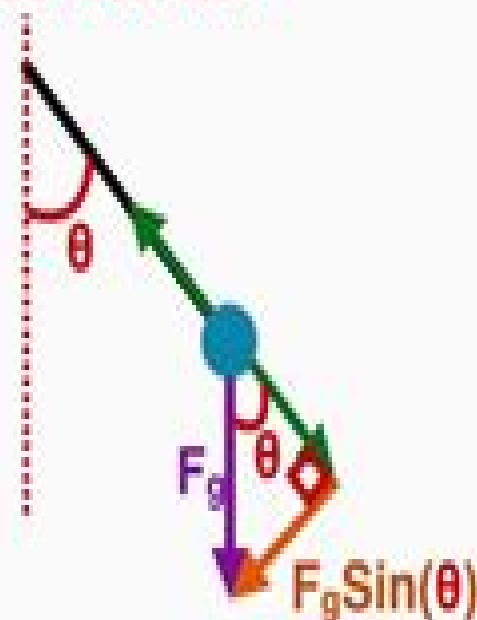
$F_s$  is the restoring force in a spring's simple harmonic motion.

$k$  = spring constant

Linear  
Hooke's Law:  $F_s = -k\Delta x$   $y = mx + b$   
 $F_s = -k\Delta x + 0$

## Pendulum

Equilibrium Position



# Notes Physics I Chapter 12 Simple Harmonic Motion

**Arshad Iqbal**



## **Notes Physics I Chapter 12 Simple Harmonic Motion:**

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In a digitally-driven earth where screens reign supreme and quick communication drowns out the subtleties of language, the profound strategies and emotional nuances concealed within words frequently move unheard. However, nestled within the pages of **Notes Physics I Chapter 12 Simple Harmonic Motion** a interesting fictional prize pulsing with organic feelings, lies an extraordinary quest waiting to be undertaken. Published by an experienced wordsmith, that enchanting opus attracts readers on an introspective journey, lightly unraveling the veiled truths and profound affect resonating within the material of every word. Within the mental depths of this moving review, we will embark upon a heartfelt exploration of the book is core subjects, dissect its fascinating publishing type, and fail to the strong resonance it evokes deep within the recesses of readers hearts.

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