

Physics 1114 - General Physics I

Quiz #14 - 2012.07.02

Solutions

1. What is the difference between stress and strain no an object?

Stress is the ratio of the perpendicular force applied to an object and its cross sectional area. Strain is the change in length of an object under stress.

2. What is the difference between elastic and plastic deformations?

If an object undergoes elastic deformations, it can be reversed. If an object undergoes plastic deformations, it cannot be reversed.

3. What is the relationship between the period and frequency of an object undergoing simple harmonic motion?

There are reciprocals of each other.