

temperature:

- a measure of the average kinetic energy of the particles in a sample of matter
- does not depend on the amount of matter in the sample
- symbol is T; unit is °C

heat:

- total amount of kinetic energy that flows because of a difference in temperature
- depends on mass of sample
- symbol is Q; unit is J (1 J = 4.18 cal)

Kinetic energy is energy in motion

Potential energy is store

- Potential energy is hiding and cannot be measured
- Only changes in P.E. can be measured.

specific heat capacity:

- amount of energy required to raise the temperature of 1 gram of substance 1 °C
- symbol is c; unit is J/g°C

$$\begin{array}{c}
 \text{mass} \swarrow \\
 Q = m \times C \times \Delta t \\
 \swarrow \quad \quad \quad \nwarrow \\
 \text{heat} \quad \quad \quad \text{specific heat} \quad \quad \quad \text{change in temperature}
 \end{array}$$

When heat (Q) is absorbed by a system, part of it (C) goes into storage as potential energy and part of it is used to make the molecules move around more, raising the temperature (Δt).

Why does sand get hotter in the day and colder at night than the water?

Physicsfundamentals Episode 1301

Kurt Bernardo Wolf



Physicsfundamentals Episode 1301:

Geometric Optics on Phase Space Kurt Bernardo Wolf, 2004-07-21 Symplectic geometry well known as the basic structure of Hamiltonian mechanics is also the foundation of optics In fact optical systems geometric or wave have an even richer symmetry structure than mechanical ones classical or quantum The symmetries underlying the geometric model of light are based on the symplectic group Geometric Optics on Phase Space develops both geometric optics and group theory from first principles in their Hamiltonian formulation on phase space This treatise provides the mathematical background and also collects a host of useful methods of practical importance particularly the fractional Fourier transform currently used for image processing The reader will appreciate the beautiful similarities between Hamilton's mechanics and this approach to optics The appendices link the geometry thus introduced to wave optics through Lie methods The book addresses researchers and graduate students

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