

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?

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EW Minium



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Quantum Opto-Mechanics with Micromirrors Simon Gröblacher, 2012-12-16 Quantum effects in macroscopic systems have long been a fascination for researchers Over the past decade mechanical oscillators have emerged as a leading system of choice for many such experiments The work reported in this thesis investigates the effects of the radiation pressure force of light on macroscopic mechanical structures The basic system studied is a mechanical oscillator that is highly reflective and part of an optical resonator It interacts with the optical cavity mode via the radiation pressure force Both the dynamics of the mechanical oscillation and the properties of the light field are modified through this interaction The experiments use quantum optical tools such as homodyning and down conversion with the goal of ultimately showing quantum behavior of the mechanical center of mass motion Of particular value are the detailed descriptions of several novel experiments that pave the way towards this goal and are already shaping the field of quantum optomechanics in particular optomechanical laser cooling and strong optomechanical coupling

Basics in Human Evolution Michael P Muehlenbein, 2015-07-24 Basics in Human Evolution offers a broad view of evolutionary biology and medicine The book is written for a non expert audience providing accessible and convenient content that will appeal to numerous readers across the interdisciplinary field From evolutionary theory to cultural evolution this book fills gaps in the readers knowledge from various backgrounds and introduces them to thought leaders in human evolution research Offers comprehensive coverage of the wide ranging field of human evolution Written for a non expert audience providing accessible and convenient content that will appeal to numerous readers across the interdisciplinary field Provides expertise from leading minds in the field Allows the reader the ability to gain exposure to various topics in one publication

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The Wild Girl, Natural Man, and the Monster Julia V. Douthwaite, 2010-11-15 This study looks at the lives of the most famous wild children of eighteenth century Europe showing how they open a window onto European ideas about the potential and perfectibility of mankind Julia V Douthwaite recounts reports of feral children such as the wild girl of Champagne captured in 1731 and baptized as Marie Ang lique Leblanc offering a fascinating glimpse into beliefs about the difference between man and beast and the means once used to civilize the uncivilized A variety of educational experiments failed to tame these feral children by the standards of the day After telling their stories Douthwaite turns to literature that reflects on similar experiments to

perfect human subjects Her examples range from utopian schemes for progressive childrearing to philosophical tales of animated statues from revolutionary theories of regenerated men to Gothic tales of scientists run amok Encompassing thinkers such as Rousseau Sade Defoe and Mary Shelley Douthwaite shows how the Enlightenment conceived of mankind as an infinitely malleable entity first with optimism then with apprehension Exposing the darker side of eighteenth century thought she demonstrates how advances in science gave rise to troubling ethical concerns as parents scientists and politicians tried to perfect mankind with disastrous results Resources in Education ,1996-07 **Reader's Guide to Periodical Literature Supplement** ,1922 **Science News-letter** ,1929 **Bibliographic Guide to Technology** New York Public Library. Research Libraries,1978 *Bulletin of the Atomic Scientists* ,1969-02 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *Flying Magazine* ,1944-10 **Bulletin of the Atomic Scientists** ,1970-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *Bulletin of the Atomic Scientists* ,1958-01 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Bulletin of the Atomic Scientists** ,1973-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world El-Hi Textbooks in Print ,1982 **Bulletin of the Atomic Scientists** ,1966-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

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