

Particle Interactions:

What does a single force tell us as an object, it changes the momentum (velocity/energy) of an object.
Force = velocity
 and how many two objects they exert equal and opposite forces on each other.
 - transferred between the objects by their forces, if an other force act on them.

Force in Fundamental Interactions

and Atoms all nuclei - strong attractive
 binds the nucleus together. Also known as strong nuclear force (strong interaction, strong force)
 responsible for the radioactive decay of nucleus (slowly)
 Gravity: A type of physical interaction between elementary charged particles (Attractive/repulsive)

Why are magnetic force (attraction and repulsion) forces?
 Physics suggested that electromagnetic force were due to the exchange of **virtual photons**

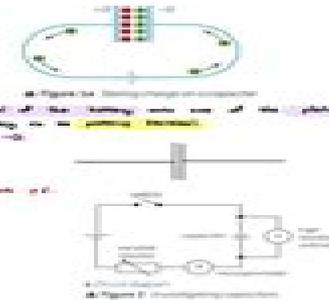
The closest thing a ball to not other means than to equal, as the ball transfers momentum from the
 one another, the people represent momentum particles that the ball represents as **exchange particles**
 The ball's throwing a ball to not other than that, to attract again, the people represent
 charged particles and the balling represents as "exchange particles".



Before, the strong nuclear force holds the neutrons and protons in a nucleus together, but it
 does a **trick to change into a particle in p' decay** or a **particle to change into a neutron in p' decay**
 or **neutrons** used for the strong force or neutron is changed.
 but the force is not the thing that change particles.
 The strong force is also not the cause for beta decay as it involves particles other than
 the neutron and proton.
 The cause is a **different force** at work every time particle change is beta decay

Capacitance

Capacitor is a device designed to store charge
 could hold extra placed into each plate. A capacitor
 has plate area in equal and opposite charge.
 The more charge the battery put on each plate, the opposite terminal of the battery use one of the plate
 of capacitor of distance from the other plate to store the energy in the **electric field**
 capacitor store charge Q and the other capacitor store charge -Q



Capacitance C of a capacitor is defined as the charge stored per volt of
Capacitance

$$C = \frac{Q}{V}$$
 Charge stored is

$$Q = CV$$

Energy for movement of charge with time for a second
 the energy stored in the capacitor
 In Physics we measure electric energy as potential that
 capacitor store with QV



Energy stored in a capacitor

$$E = \frac{1}{2} QV = \frac{1}{2} CV^2 = \frac{1}{2} \frac{Q^2}{C}$$

 In the charging process, the battery transfer **QV** to the capacitor
 - 50% of energy stored by battery (QV) is stored in capacitor.
 - The other 50% is transfer to the **resistor in circuit**

Superposition

- Superposition occurs when 2 or more waves pass through each other.
 - At the point where the waves meet, they combine to an extent before they move apart.
 - The principle of superposition states that, for waves meet, the total displacement of
 point is equal to the sum of individual displacements at that point.

Constructive Interference
 - when a crest meets a crest, a **supercrest** is created - the waves **reinforce** each other
 - when a trough meets a trough, a **supertrough** is created - the waves **reinforce** each other

Destructive Interference
 - when a crest meets a trough of the **same amplitude**, the resultant displacement is zero as
 the waves travel back and forth. This is called **total destructive interference**.
 - If they are not the same amplitude, the resultant displacement is called a **medium**.



Examples of Superposition

1. Standing waves on a rope
 - Standing waves are formed on a rope if two people send waves continuously along a rope
 from either end.
 - The two ends of progressive waves combine to form nodes along the rope.
 - At each node, the two ends of waves are **180° out of phase**, so they cancel each other out.



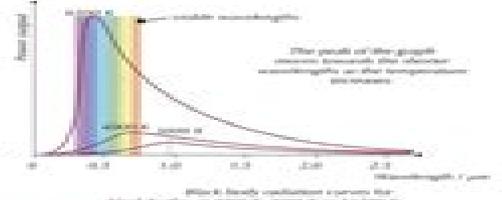
2. Water waves in a ripple tank
 - A reflecting dipper on a water surface sends out circular waves.
 - Points of **destructive interference** are created when 2 waves meet in trough.
 - These points create gaps in the wavefronts.
 - Points of **constructive interference** are created when a crest meets a crest.



The Discovery of Photoelectricity

1. The classical wave theory and two-body interaction.
 2. Planck's interpretation in terms of quanta.
 3. The theory of quantum wave being in better agreement in photoelectricity.
 4. Planck's explanation of photoelectricity and its significance in terms of the nature of the matter.

The Ultraviolet Catastrophe
 - It meant that as the temperature of the black body increases, the radiation emitted by the black body in the ultraviolet region increases.
 - A black body is a body that absorbs all the radiation of all wavelengths and re-emits all wavelength of the radiation.
 - Black body radiation is the maximum spectrum of the radiation emitted by a black body.



Wien's Displacement Law and Stefan's Law

$$P = \sigma A T^4$$

$$P = \sigma A \left(\frac{\lambda}{\lambda_0}\right)^4$$

$$P \propto \frac{1}{\lambda^4}$$

Classical wave theory

Why does classical wave theory not explain ultraviolet catastrophe?
 - Classical wave theory suggested that $P \propto \frac{1}{\lambda^4}$ but power would
 not be present in least amount falling in UV region.

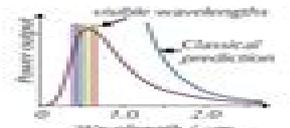


Figure 2: The classical wave theory prediction (blue line) tends to infinity in the ultraviolet region because it assumed that power is $\frac{1}{\lambda^4}$.

Planck's Interpretation of light

- Max Planck suggested that the energy can only be released in discrete packets, or quanta - the Planck law.
 - Discrete instead of the waves could be discrete packets, photon, but photon has E=hv, quanta-the interaction with an electron in a metal surface.

A Level Physics Notes

Jianjun Gao



A Level Physics Notes:

A Level Physics Notes Book Review: Unveiling the Magic of Language

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Table of Contents A Level Physics Notes

1. Understanding the eBook A Level Physics Notes
 - The Rise of Digital Reading A Level Physics Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying A Level Physics Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an A Level Physics Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from A Level Physics Notes
 - Personalized Recommendations
 - A Level Physics Notes User Reviews and Ratings
 - A Level Physics Notes and Bestseller Lists

5. Accessing A Level Physics Notes Free and Paid eBooks
 - A Level Physics Notes Public Domain eBooks
 - A Level Physics Notes eBook Subscription Services
 - A Level Physics Notes Budget-Friendly Options
6. Navigating A Level Physics Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - A Level Physics Notes Compatibility with Devices
 - A Level Physics Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of A Level Physics Notes
 - Highlighting and Note-Taking A Level Physics Notes
 - Interactive Elements A Level Physics Notes
8. Staying Engaged with A Level Physics Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers A Level Physics Notes
9. Balancing eBooks and Physical Books A Level Physics Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection A Level Physics Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine A Level Physics Notes
 - Setting Reading Goals A Level Physics Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of A Level Physics Notes
 - Fact-Checking eBook Content of A Level Physics Notes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web oct 19 2020 noncommunicable diseases childhood overweight and obesity the prevalence of overweight and obesity in adolescents is defined according to the who growth reference for school aged children and adolescents overweight 1 standard deviation body mass index for age and sex and obese 2 standard deviations body

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web apr 28 2017 the second section included six questions assessing physicans knowledge about early childhood overweight and obesity including the importance of early childhood obesity for short and long term health systematic use of growth charts during each child s visit growth parameters weight length head circumference weight height ratio or