

1. Electrostatics

1. Discuss the basic properties of electric charges.

Properties of electric charge :

1. Electric charge

2. Conservation of charge

3. Quantisation of charge

1. Electric Charge :

- Objects in the universe are made up of atoms.
- Atoms are made up of protons , neutrons and electrons.
- These particles have mass , an inherent property of particles.
- Electric charge is another intrinsic and fundamental property of particles.
- S I Unit of electric charge is Coulomb.

2. Conservation of Charge :

- Total electric charge in the universe is constant.
- Charge can neither be created nor be destroyed.
- Net change in charge will always be zero.
- Objects are electrically neutral before rubbing process happen.
- After rubbing simply transfers charges from one object to the others.

Example :

1. When a glass rod rubbed with silk cloth then negative charge transferred from glass to silk.
2. As a result , glass rod is positively charged and silk cloth is negatively charged.

3. Quantisation of charge :

The charge q on any object is equal to an integral multiple of fundamental unit of charge e .

$$q = ne$$

n is any integer ($0, \pm 1, \pm 2$) ; Charge of electron : $-1.6 \times 10^{-19} \text{ C}$

2. Explain in detail Coulomb's law and its various aspects .

Coulomb's law states that , electrostatic force is directly proportional to the product of the magnitude of the two point charges and inversely proportional to the square of the distance between the two charges.



$$\vec{F}_{12} = K \frac{q_1 q_2}{r^2} \hat{r}_{12}$$

1. The force on the charge q_2 exerted by the charge q_1 always lies along the line joining the two charges. $\hat{r}_{12}$ is a unit vector pointing from charge q_1 to q_2 . The force on the charge q_1 exerted q_2 is along $-\hat{r}_{12}$.

2. Value of proportionality constant K :

$$K = \frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ N m}^2 \text{ C}^{-2}$$

$$\epsilon_0 = \frac{1}{4\pi K} = 8.854 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2}$$

3. The magnitude of the electrostatic force between two charges each of one coulomb and separated by a distance 1 m is calculated as follows :

$$|F| = \frac{9 \times 10^9 \times 1 \times 1}{1^2} = 9 \times 10^9 \text{ N}$$

Answers Holt Physics Electric Charge

RS Peters



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Holt Physics ,2000-12 Advanced Physics for You Keith Johnson,Simmone Hewett,Sue Holt,John Miller,2000 Designed to be motivating to the student this title includes features that are suitable for individual learning It covers the AS Level and core topics of almost all A2 specifications **Holt General Science** William L. Ramsey,1988 Holt Biology Chapter 41
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Physics of the Atom Mentzer Russell Wehr,James Austin Richards,Thomas W. Adair,1978 Designed to meet the modern need for a better understanding of the atomic age It is an introduction suitable for any student with a background in college physics and mathematical competence at the level of calculus *English Mechanic and Mirror of Science* ,1867 **English Mechanic and World of Science** ,1888 **English Mechanic and Mirror of Science and Art** ,1882 **Elements of Classical Physics** Martin C. Martin,Charles A. Hewett,2013-10-22 Elements of Classical Physics tackles the different areas of general physics in a way that the authors believe to be more effective The book contains material easily understood with a minimal mathematical framework and introduces the necessary mathematical concepts when they have been presented in a typical concurrent mathematical course The book also provides a quantitative understanding of the different concepts in a wide variety of specific situations The topics covered which are arranged according to increasing difficulty in a uniformly progressive pace are temperature and heat light and wavelength particle motion on and special relativity dynamics laws of motion momentum work and mechanical energy electromagnetism and thermodynamics The material is recommended as a textbook for beginning physics students as it aims to give its readers a smooth transition from high school to a college level of understanding on the subject **Hearings on H.R. 2603, Department of Energy Authorization Legislation**

(national Security Programs) for Fiscal Year 1980 Before the Procurement and Military Nuclear Systems Subcommittee of the Committee on Armed Services, House of Representatives, Ninety-sixth Congress, First Session ... United States. Congress. House. Committee on Armed Services. Procurement and Military Nuclear Systems Subcommittee,1979 **The Project Physics Course: Reader: The nucleus** F. James Rutherford,Harvard Project Physics,1970 **INIS Atomindex** ,1986 **Science Books** ,1967 *Science Digest* ,1981 **The Sanitary Engineer** ,1884 Engineering Record, Building Record and Sanitary Engineer Henry Coddington Meyer,Charles Frederick Wingate,1884 **Hearings on H.R. 2603 ... Before the Procurement and Military Nuclear Systems Subcommittee of the Committee on Armed Services, House of Representatives, Ninety-sixth Congress, First Session** United States. Congress. House. Committee on Armed Services. Procurement and Military Nuclear Systems Subcommittee,1979

The British National Bibliography Arthur James Wells,1972 A College Text-book of Physics Arthur Lalanne Kimball,1929

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