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# HOLT PHYSICS ANSWER ELECTROMAGNETIC INDUCTION

Dec 02, 2020



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Ordinary Level Physics ANSWERS : ELECTROMAGNETIC INDUCTION Solutions 2015 Question 12 (d) [Ordinary Level] A solenoid (long coil of wire) is connected to a battery as shown. (i) Copy the diagram into your answer book and draw the magnetic field in and around the solenoid. correct shape of field 6 partial answer (3) (ii) Explain the term electromagnetic induction. voltage/emf/current induced ...

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See the guide for this topic. 11.1 – Electromagnetic induction Electromotive force (emf) When a conducting wire moves through a magnetic field, a potential difference is created along the wire. Thi...

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Chapter 29 – Electromagnetic Induction - Induction Experiments - Faraday's Law - Lenz's Law - Motional Electromotive Force - Induced Electric Fields - Eddy Currents - Displacement Current and Maxwell's Equations - Superconductivity . 1. Induction Experiments (Faraday / Henry) - If the magnetic flux through a circuit changes, an emf and a current are induced. - A time-varying magnetic ...

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uses electromagnetic induction because a magnetic field cannot induce current in a non-conductor, and many non-metals are non-conductors. 5. I may have to remove my belt, empty my pockets, and remove my shoes because these items contain metal that will be detected by the metal detector. 6. Answers may vary. Sample answer: Induction charges could be used for electric toothbrushes, electric ...

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Mutual Induction:-Mutual induction of two circuits is the phenomenon where a current changing in the first coil results in the induction of an e.m.f. in the second. Coefficient of Mutual Induction:-?  $B = MI$  and  $E = -M[di/dt]$  Here  $M$  is called the coefficient of mutual induction of two circuits. The value of  $M$ ,  $M = \mu_0 \mu_r n_1 n_2 A$ .  $M$  depends ...

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Dear student, Advantages of eddy current. Electromagnetic damping: When a metallic frame or plate oscillates in a magnetic field (e.g. in a dead-beat galvanometer), the eddy currents generated in the frame or plate oppose the motion and bring the frame to rest as the oscillations die out quickly. This is called electromagnetic damping. Magnetic braking: This is provided in electric trains by ...

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Revision Notes on Electromagnetic Induction and Alternating Current. Magnetic flux:- Magnetic flux lined with the surface is defined as the product of area and component of  $B$  perpendicular that area. and.  $\Phi = \mu n AH$ . Here,  $\mu$  is the permeability of the medium,  $n$  is the number of turns,  $A$  is the area and  $H$  is the magnetic field intensity.

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Please help me - Physics - Electromagnetic Induction. NCERT Solutions; Board Paper Solutions; Ask & Answer; School Talk; Login; GET APP; Login Create Account. Class-12-science » Physics. Electromagnetic Induction. Please help me.. Share with your friends. Share 0. Dear student, let  $Q$  be the charge flowing through galvanometer  $M$  a g n e t i c F l u x ? = B A ? ? ? = ? (B A) = B ? A = B ...

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discovery of electromagnetic induction. 6.2 THE EXPERIMENTS OF FARADAY AND HENRY The discovery and understanding of electromagnetic induction are based on a long series of experiments carried out by Faraday and Henry. We shall now describe some of these experiments. Experiment 6.1 Figure 6.1 shows a coil  $C$  1 \* connected to a galvanometer  $G$  ...

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Correct answers: 1 question: Study Faraday's law of electromagnetic induction by analyzing the induction that occurs due a coil of copper wire sliding along an air track that passes through an external magnetic field. Specifically, we will: According to the law of electromagnetic induction (Faraday's law), what changes can cause an emf to be induced in a loop of wire? Mark all the correct ...

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a-level physics, electromagnetic induction help please? the first part is about faraday's law of electromagnetic induction, and ive done that bit no problem. but them ive got a bit confused at the rest . it has a diagram of two blades of aluminium and blade A is complete, whereas blade B has been cut to form a comb. i) what electrical property of the blade is increased by cutting away the ...

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Question 4: a) What is electromagnetic induction? What are the necessary conditions for the electromagnetic induction? Give some examples in which the electromagnetic induction principle can be used.(4) b) Define Lenz's law in electromagnetic induction Explain how the magnitude and direction of induced current can be changed during electromagnetic induction.

[Part 3: Magnetic Electromagnetic Induction 15. Exp ...](#)

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Electromagnetism is a branch of physics involving the study of the electromagnetic force, a type of physical interaction that occurs between electrically charged particles. The electromagnetic force is carried by electromagnetic fields composed of electric fields and magnetic fields, and it is responsible for electromagnetic radiation such as light.

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