

CHAPTER 22 | ELECTROMAGNETIC INDUCTION

5. **REASONING AND SOLUTION** For each of the three rods in the drawing, we have the following:

Rod A: The motional emf is **zero**, because the velocity of the rod is parallel to the direction of the magnetic field, and the charges do not experience a magnetic force.

Rod B: The motional emf is, according to Equation 22.1,

$$\text{emf} = vBL = (2.7 \text{ m/s})(0.45 \text{ T})(1.3 \text{ m}) = \mathbf{1.6 \text{ V}}$$

The positive end of Rod 2 is **end 2**.

Rod C: The motional emf is **zero**, because the magnetic force F on each charge is directed perpendicular to the length of the rod. For the ends of the rod to become charged, the magnetic force must be directed parallel to the length of the rod.

17. **REASONING** The general expression for the magnetic flux through an area A is given by Equation 22.2: $\Phi = BA \cos \phi$, where B is the magnitude of the magnetic field and ϕ is the angle of inclination of the magnetic field \mathbf{B} with respect to the normal to the area.

SOLUTION Since the magnetic field \mathbf{B} is parallel to the surface for the triangular ends and the bottom surface, the flux through each of these three surfaces is **zero**.

The flux through the 1.2 m by 0.30 m face is

$$\Phi = (0.25 \text{ T})(1.2 \text{ m})(0.30 \text{ m}) \cos 0.0^\circ = \mathbf{0.090 \text{ Wb}}$$

For the 1.2 m by 0.50 m side, the area makes an angle ϕ with the magnetic field \mathbf{B} , where

$$\phi = 90^\circ - \tan^{-1} \left(\frac{0.30 \text{ m}}{0.40 \text{ m}} \right) = 53^\circ$$

Therefore,

$$\Phi = (0.25 \text{ T})(1.2 \text{ m})(0.50 \text{ m}) \cos 53^\circ = \mathbf{0.090 \text{ Wb}}$$

25. **REASONING AND SOLUTION** According to Ohm's law, the emf developed by the coil is $\text{emf} = IR$, which, when combined with the definition of electric current becomes

Chapter 22 Electromagnetic Induction

Louis Alan Hazeltine



Chapter 22 Electromagnetic Induction:

Physics Insights 'O' Level Wan Yong Loo, 2007 **Physics, Volume Two: Chapters 18-32** John D. Cutnell, Kenneth W. Johnson, 2014-12-15 Cutnell and Johnson has been the 1 text in the algebra based physics market for almost 20 years The 10th edition brings on new co authors David Young and Shane Stadler both out of LSU The Cutnell offering now includes enhanced features and functionality The authors have been extensively involved in the creation and adaptation of valuable resources for the text This edition includes chapters 18 32 *Handbook of Agricultural Geophysics* Barry Allred, Jeffrey J. Daniels, Mohammad Reza Ehsani, 2008-06-10 Precision farming site infrastructure assessment hydrologic monitoring and environmental investigations these are just a few current and potential uses of near surface geophysical methods in agriculture Responding to the growing demand for this technology the Handbook of Agricultural Geophysics supplies a clear concise overview of nea O-level Physics Critical Guide (Yellowreef) Thomas Bond, Chris Hughes, 2013-11-20 An expert guide to lead one through abstract knowledge and wisdom Enable accurate complete and independent self education Holistic question answering techniques Exact definitions complete edition and concise edition eBooks available **School of Practical Electricity: Magnetism and applications of magnets** Milwaukee School of Engineering, 1919 **Radio Theory and Operating for the Radio Student and Practical Operator** Mary Texanna Loomis, 1927 Batcheller Collection

Physics John D. Cutnell, Kenneth W. Johnson, 2009-09-08 Designed for medical professionals who may struggle with making the leap to conceptual understanding and applying physics the eighth edition continues to build transferable problem solving skills It includes a set of features such as Analyzing Multiple Concept Problems Check Your Understanding Concepts Calculations and Concepts at a Glance This helps the reader to first identify the physics concepts then associate the appropriate mathematical equations and finally to work out an algebraic solution Radio Theory and Operating Mary Texanna Loomis, 1928 **College Physics** Roger Freedman, Todd Ruskell, Philip R. Kesten, David L. Tauck, 2017-12-26 Freedman College Physics Second Edition is a student centered text and homework program for introductory algebra based physics courses With a focus on conceptual understanding and biological applications College Physics makes the relevance of physics clear to students The Sapling Plus system combines the heavily researched FlipIt Physics prelectures derived from smartPhysics with a robust homework system in which every problem has targeted feedback a hint and a fully worked and explained solution Freedman College Physics Second Edition and SaplingPlus This new integrated learning system brings together a ground breaking media program with an innovative text presentation of algebra based Physics An experienced author team brings together a unique set of expertise and perspectives to help students master concepts and succeed in developing problem solving skills necessary for College Physics Now available for the first time with Sapling Plus an online learning platform that combines the heavily research based FlipItPhysics prelectures derived from smartPhysics with the robust Sapling homework system in which every problem has targeted feedback hints and a fully worked and explained

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