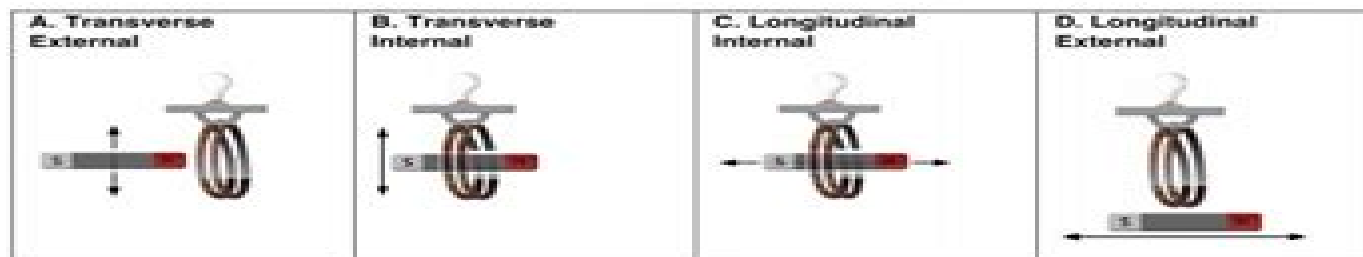


Faraday's Electromagnetic Lab II: Pickup Coil, Transformer, and Generator

Answer the following questions on a separate sheet. The sim is available at phet.colorado.edu.

Part A: Pickup Coil

- Run the PhET sim, "Faraday's Electromagnetic Lab." Maximize the window. Click the Pickup Coil tab. You should see a bar magnet, a compass needle grid, and a coil attached to a light bulb.
- Describe the most effective way of using the magnet and the coil to light the bulb if
 - the coil cannot be moved,
 - the magnet cannot be moved,
- Rank the arrangements and motions shown below from most effective to least effective in terms of lighting the bulb, allowing for ties. For example, if A were most effective, B were least effective, and C and D were equivalent to one another, the ranking would be $A > C = D > B$.



- Move the bar magnet through the coil and observe the motion of the electrons in the forward arc of the coil loops. Report the correlations of magnet motion and electron motion.



- Magnet approaches from the left, north pole first; electrons move downward.
- Magnet departs to the right, south end last; electrons move upward.



- Magnet approaches from the right, south pole first; electrons move _?_.
- Magnet departs to the left, north end last; electrons move _?_.

Phet Tutorial Faraday S Electromagnetic Lab

John Michels (Journalist)



Phet Tutorial Faraday S Electromagnetic Lab:

The World of Applied Electromagnetics Akhlesh Lakhtakia, Cynthia M. Furse, 2017-08-08 This book commemorates four decades of research by Professor Magdy F Iskander Life Fellow IEEE on materials and devices for the radiation propagation scattering and applications of electromagnetic waves chiefly in the MHz THz frequency range as well on electromagnetics education This synopsis of applied electromagnetics stemming from the life and times of just one person is meant to inspire junior researchers and reinvigorate mid level researchers in the electromagnetics community The authors of this book are internationally known researchers including 14 IEEE fellows who highlight interesting research and new directions in theoretical experimental and applied electromagnetics **Science** John Michels (Journalist), 2008

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