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create magnetic fields; varying
magnetic fields create electric
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James Clerk Maxwell FRSE FRS
(13 June 1831 – 5 November
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the field of mathematical physics.
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teaching university physics in California, Oklahoma, Pennsylvania, and Louisiana (and has also taught physics to gifted high school students). Dr. McMullen currently teaches physics at Northwestern State University of Louisiana. He has

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Study Guide also published a half-dozen papers on the collider phenomenology of superstring-inspired large extra dimensions. Chris McMullen earned his Ph.D. in particle physics from Oklahoma State University (and his M.S. in physics from California State

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fields/forces, and subsequently their motion as electric currents. These currents are shown to produce magnetic fields/forces, where electromagnets are studied as models for understanding permanent magnets. Next, The reverse

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process where magnetic fields produce current is examined and applied for generating electricity. AC and DC circuits exemplify further applications. Finally, electric and magnetic fields are found to produce electromagnetic waves that move at the speed of

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rainbows, eyeglasses, telescopes and microscopes. Subsequently, The text examines the wave nature of light, As exhibited by its diffraction and interference phenomena. Furthermore, when the electric field amplitudes of waves are oriented along one

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dimension, light is polarized.

Polaroids filter out such "glaring" light when used in sunglasses.

Finally, various light experiments provided early clues for discovering relativity and quantum mechanics, which are examined in Volume IV. Near the

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