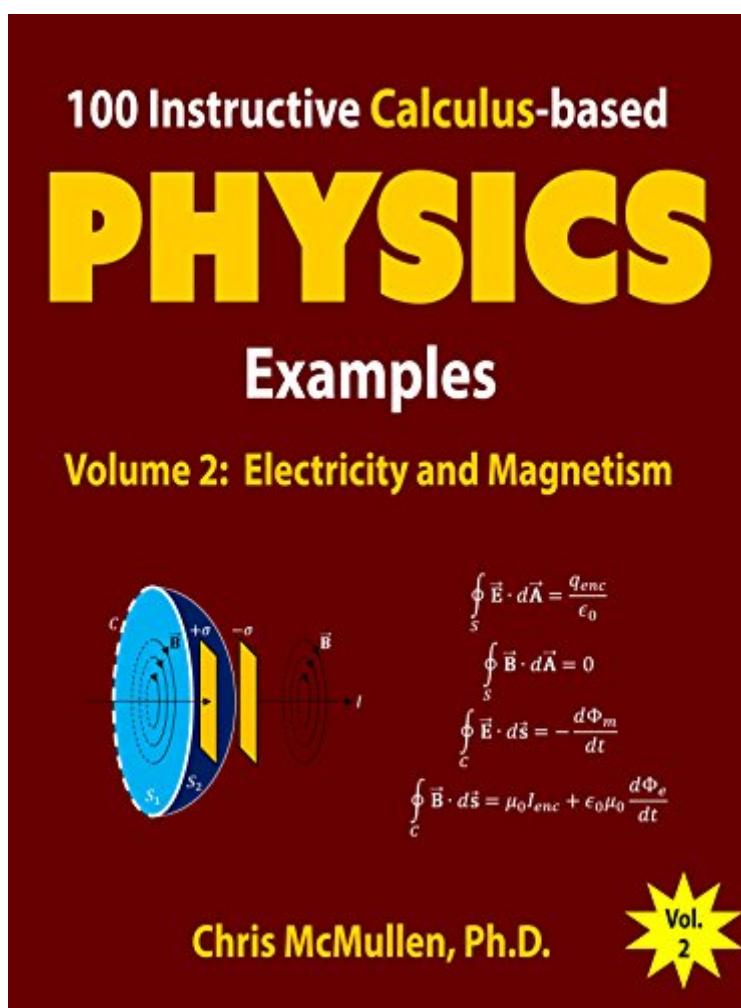


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# 100 Instructive Calculus-based Physics Examples: Electricity And Magnetism (Calculus-based Physics Problems With Solutions Book 2)



## Synopsis

**DESCRIPTION:** over 100 fully-solved examples step-by-step solutions with explanations standard problems from physics with calculus includes tables of equations, symbols, and units This volume covers electricity and magnetism, including electric field, Gauss's law, electric potential, capacitance, resistance, Kirchhoff's rules, RC Circuits, right-hand rules, magnetic field, the law of Biot-Savart, Ampere's law, Faraday's law, Lenz's law, inductance, AC circuits, Maxwell's equations, and more. **AUTHOR:** The author, Dr. Chris McMullen, has over 20 years of experience 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 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 University, Northridge). Dr. McMullen is well-known for: engaging physics students in challenging ideas through creativity breaking difficult problems down into manageable steps providing clear and convincing explanations to subtle issues his mastery of physics and strong background in mathematics helping students become more fluent in practical math skills **MATH REVIEW:** A separate chapter covers essential calculus skills (including relevant integration techniques) and reviews common coordinate systems. **USES:** This physics book serves two functions: It provides a variety of examples for how to solve fundamental physics problems. It's also the solutions manual to Essential Calculus-based Physics Study Guide Workbook, ISBN 978-1-941691-11-3.

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