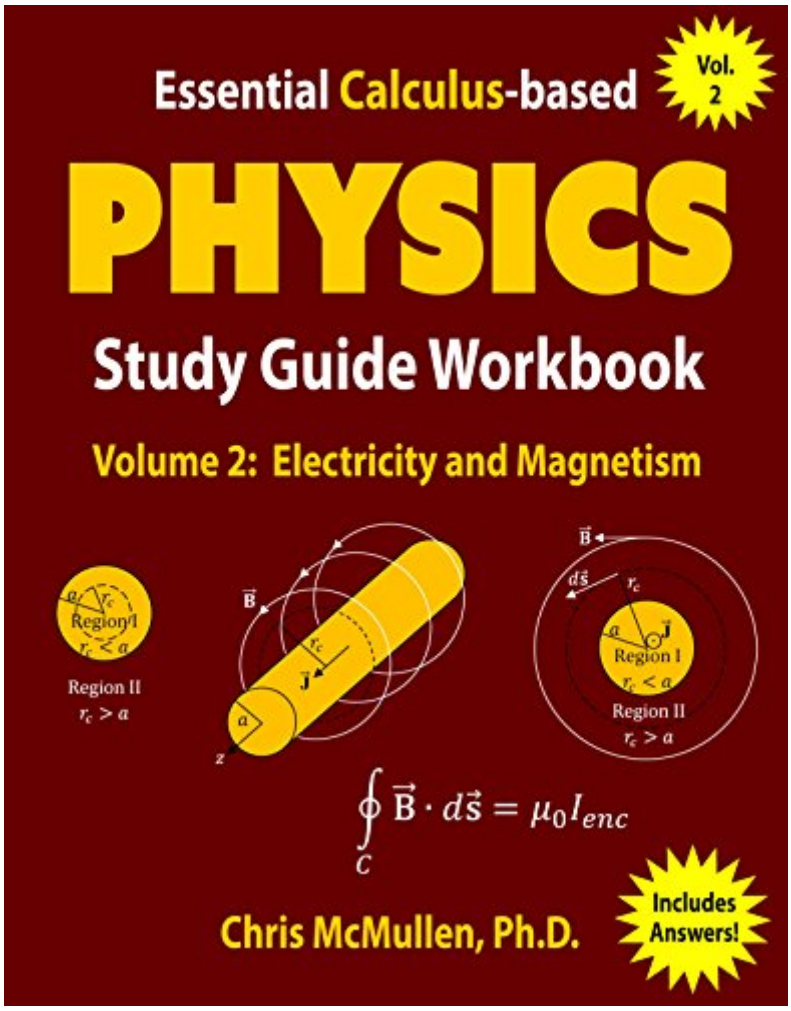
Essential Calculus-based Physics Study Guide Workbook: Electricity And Magnetism (Learn Physics With Calculus Step-by-Step Book 2)



Synopsis

LEVEL: This book covers the electricity and magnetism topics from physics with calculus at the university level. (If instead youÃ¢â ¬â„¢re looking for a trig-based physics book, search for ISBN 1941691102.) Note that the calculus-based edition includes all of material from the trig-based book, plus ample coverage of the calculus-based material.DESCRIPTION: This combination of physics study guide and workbook focuses on essential problem-solving skills and strategies:Fully solved examples with explanations show you step-by-step how to solve standard university physics problems.Handy charts tabulate the symbols, what they mean, and their SI units.Problem-solving strategies are broken down into steps and illustrated with examples.Answers, hints, intermediate answers, and explanations are provided for every practice exercise.Terms and concepts which are essential to solving physics problems are defined and explained.VOLUME: This volume covers electricity and magnetism, including electric fields, GaussÃ¢â ¬â„¢s law, circuits, KirchhoffÃ¢â ¬â„¢s rules, magnetic fields, right-hand rules, the law of Biot-Savart, AmpereÃ¢â ¬â„¢s law, LenzÃ¢â ¬â„¢s law, FaradayÃ¢â ¬â„¢s law, AC circuits, an introduction to MaxwellÃ¢â ¬â„¢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 creativitybreaking difficult problems down into manageable stepsproviding clear and convincing explanations to subtle issueshis mastery of physics and strong background in mathematicshelping students become more fluent in practical math skillsMATH REVIEW: A separate chapter covers essential calculus skills (including valuable integration techniques).SOLUTIONS: The back of the book includes a detailed section of hints, intermediate answers, final answers, and explanations to help you solve each problem one step at a time. ItÃ¢â ¬â„¢s like having a physics tutor in the back of the book. (However, if you would prefer complete solutions, search for ISBN 1941691137.)USES: This study guide workbook can be used to:learn how to solve fundamental problems in physics with calculusfind fully-solved examples of standard physics problemsdevelop fluency in physics via practice exercises that include answers, hints, and explanationsquickly find the most essential physics terms, concepts, and formulasprepare for the AP physics examreview for standardized exams, such as AP Physics or the fundamentals of

the GRE.CALCULATOR: Every problem in this book can be solved without the aid of a calculator. This is handy for students who will take a standardized exam like the GRE Physics, which doesnÃ¢â ¬â„¢t allow a calculator. (ItÃ¢â ¬â„¢s also a handy skill to be able to estimate an answer without relying on a calculator.)

Book Information

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Customer Reviews

well done

Very good review of the subject

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