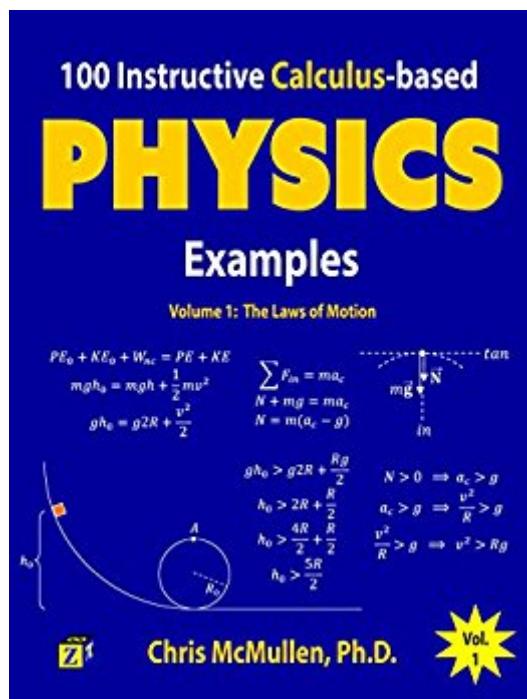


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100 Instructive Calculus-based Physics Examples: The Laws Of Motion (Calculus-based Physics Problems With Solutions)



Synopsis

LEVEL: This book covers physics with calculus at the university level. (If instead you're looking for a trig-based physics book, search for ISBN 1941691161.) Note that the calculus-based edition includes all 100 problems from the trig-based book, plus dozens of calculus-based examples (there are over 200 examples in all, including math review examples). **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 motion, including uniform acceleration, calculus-based motion, vector addition, projectile motion, Newton's laws, center of mass integrals, conservation of energy, collisions, the scalar and vector product, rotation, moment of inertia integrals, satellites, and more. (Vol. 2 covers electricity and magnetism, while Vol. 3 covers waves, fluids, heat, sound, and light. Vol.'s 2-3 will be released in the spring of 2017.) **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:** Separate chapters cover essential calculus skills (like derivatives and relevant integration techniques) as well as essential algebra, geometry, and trigonometry skills. **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 978-1-941691-15-1.

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