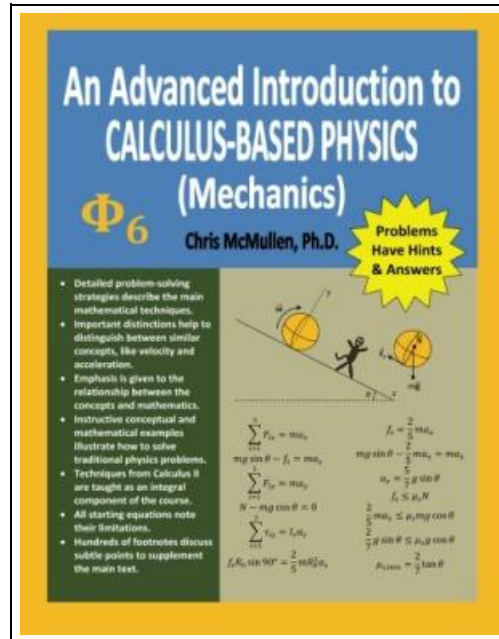


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AN ADVANCED INTRODUCTION TO CALCULUS-BASED PHYSICS (MECHANICS)



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Createspace, United States, 2012. Paperback. Book Condition: New. 278 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.CONTENTS: This textbook covers the mechanics portion of first-semester calculus-based physics. AUDIENCE: This calculus-based physics textbook is geared toward independent learners who can handle the rigors of calculus and who seek to develop a strong introduction to the fundamentals of physics, both mathematically and conceptually. It could also serve as a useful reference for physics and engineering students who have gone beyond the first year of physics, but who would like to review the fundamentals as they explore more advanced fields of physics. This volume is dedicated to mechanics. PREREQUISITES: No previous exposure to physics is assumed. The student should be familiar with the basic techniques of differentiation and integration, including polynomials and trig functions, and should be fluent in algebra and familiar with the basic trig functions. COREQUISITES: The textbook teaches Calculus II skills as needed, such as the technique of integrating via trigonometric substitution. The textbook also reviews some Calculus I skills which students often forget, such as the mean-value theorem, l Hopital s rule, and the chain rule. This is not done in an introductory chapter or an appendix, but in the main text as these ideas first become useful. IMPORTANT DISTINCTIONS: Boxes of important distinctions are included in order to help students distinguish between similar concepts - like average speed and average velocity, between velocity and acceleration, or between mass and weight. TABLE OF EQUATIONS: There is a handy table of equations organized by topic on the back cover of the textbook. The equations in the text (but not on the cover) also include notes to help students understand any limitations that the equations may have (e.g. some equations only apply if acceleration is...



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