

- ② AN ELEVATOR HAS A MASS OF 600 KG, NOT INCLUDING PASSENGERS. THE ELEVATOR IS DESIGNED TO ASCEND, AT A CONSTANT SPEED, A VERTICAL DISTANCE OF 20M (FIVE FLOORS) IN 16 SECONDS, AND IT IS DRIVEN BY A MOTOR THAT CAN PROVIDE UP TO 42 HP TO THE ELEVATOR. WHAT IS THE MAXIMUM NUMBER OF PASSENGERS THAT CAN RIDE IN THE ELEVATOR? ASSUME THAT AN AVERAGE PASSENGER HAS A MASS 65 KG.

Given:

$$m = 600 \text{ kg}$$

$$h = 20 \text{ m}$$

$$t = 16 \text{ sec}$$

$$P = 42 \text{ hp}$$

$$P = 42 \text{ hp} \times \frac{746 \text{ watts}}{1 \text{ hp}}$$

$$P = 31332 \text{ W}$$

Asked:

Number of passengers
that has a mass of
65 kg

Formula:

$$P = \frac{W}{t}$$

$$P = \frac{m_{tp}}{65 \text{ kg}}$$

$$P = \frac{1957.7143 \text{ kg}}{65 \text{ kg}}$$

$$P = 30.1187$$

Answer:

$P = 30.1187$ or the number
of passengers for 65 kg is
30 passengers.

Solution:

$$P = \frac{W}{t}$$

$$P = \frac{\Delta PE}{t}$$

$$P = \frac{mgh}{t}$$

* Using $P = \frac{mgh}{t}$, find the mass of
the total passenger.

Let m_{tp} = be the mass of the total passenger.

$$P = \left(\frac{m_{tp} gh}{t} \right) t$$

$$\frac{Pt}{gh} = \frac{m_{tp} gh}{gh} \Rightarrow m_{tp} = \frac{Pt}{gh}$$

$$m_{tp} = \frac{(31332 \text{ W})(16 \text{ sec})}{(9.8 \text{ m/s}^2)(20 \text{ m})} = 2557.7143 \text{ kg}$$

* To find the mass of elevator

Let m_{te} = mass of elevator

$$m_{te} = m_{tp} - m$$

$$m_{te} = 2557.7143 \text{ kg} - 600 \text{ kg}$$

$$m_{te} = 1957.7143 \text{ kg}$$

* To find the number of passengers

Let P = # of passengers

$$P = \frac{m_{te}}{65 \text{ kg}}$$

Calculus For Physics

Chris McMullen, Chris McMullen, Ph.d.



Calculus For Physics:

Applications Of Fractional Calculus In Physics Rudolf Hilfer, 2000-03-02 Fractional calculus is a collection of relatively little known mathematical results concerning generalizations of differentiation and integration to noninteger orders While these results have been accumulated over centuries in various branches of mathematics they have until recently found little appreciation or application in physics and other mathematically oriented sciences This situation is beginning to change and there are now a growing number of research areas in physics which employ fractional calculus This volume provides an introduction to fractional calculus for physicists and collects easily accessible review articles surveying those areas of physics in which applications of fractional calculus have recently become prominent

Tensor Calculus for Physics Dwight E. Neuenschwander, 2014-10-20 Using a clear step by step approach this book explains one of the more difficult yet crucial topics in physics Understanding tensors is essential for any physics student dealing with phenomena where causes and effects have different directions A horizontal electric field producing vertical polarization in dielectrics an unbalanced car wheel wobbling in the vertical plane while spinning about a horizontal axis an electrostatic field on Earth observed to be a magnetic field by orbiting astronauts these are some situations where physicists employ tensors But the true beauty of tensors lies in this fact When coordinates are transformed from one system to another tensors change according to the same rules as the coordinates Tensors therefore allow for the convenience of coordinates while also transcending them This makes tensors the gold standard for expressing physical relationships in physics and geometry Undergraduate physics majors are typically introduced to tensors in special case applications For example in a classical mechanics course they meet the inertia tensor and in electricity and magnetism they encounter the polarization tensor However this piecemeal approach can set students up for misconceptions when they have to learn about tensors in more advanced physics and mathematics studies e g while enrolled in a graduate level general relativity course or when studying non Euclidean geometries in a higher mathematics class Dwight E Neuenschwander s *Tensor Calculus for Physics* is a bottom up approach that emphasizes motivations before providing definitions Using a clear step by step approach the book strives to embed the logic of tensors in contexts that demonstrate why that logic is worth pursuing It is an ideal companion for courses such as mathematical methods of physics classical mechanics electricity and magnetism and relativity

[An Advanced Introduction to Calculus-Based Physics \(Mechanics\)](#) Chris McMullen, Chris McMullen, Ph.d., 2012-05-01 **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 uniform or if mass is constant

CONCISE OUTLINE FORMAT The text is conveniently organized by specific topic to help students who may not be reading straight through but who may be searching for a specific idea or who may be reviewing material that they read previously There is also a handy index to help locate concepts quickly

Examples and problem solving strategies clearly stand out from discussions of concepts

MATHEMATICAL quality was favored over quantity Simple plug and chug examples and problems are scarce since the audience for this book is independent students

PRACTICE The end of each chapter has a good selection of instructive conceptual questions and practice problems

HINTS ANSWERS 100% of the conceptual questions have both hints and answers since it s crucial to develop a solid understanding of the concepts in order to succeed in physics Some of the practice problems have answers to help independent students gain confidence by reproducing the same answers while 100% of the practice problems have hints so that students can see if they are solving the problems correctly even if the problem doesn t have the answer in the back

Calculus-based Physics I Jeffrey W. Schnick,2005 Calculus-Based Physics Ii Jeffrey W. Schnick,2009-09-24 **Calculus-Based Physics** Jeffrey W. Schnick,2021 **Principles of Physics** Raymond A. Serway,*Serway,1997-06 *Applications of Calculus in Physics* Brian K. Saltzer,2020-02-22

The purpose of this book is to show students of both math and physics the deep relationship between the areas of physics and calculus In particular a

a How calculus can deepen our understanding of the physical concepts b How calculus can link together two or more seemingly unrelated physical concepts c How calculus can be used to help us apply physical concepts to technology d How calculus provides a mechanism to do physics in alternative ways

Because many students might be seeing calculus for the first time a basic 100 page Calculus Primer has been included in the text immediately following the applications The Calculus Primer focuses on giving the students a crash course in how to calculate a derivative and an integral quickly rather than on the deep rigor taught in many calculus courses

Formal mathematical language has been intentionally avoided to help students acquire this useful tool as quickly as possible

Because this material is being included in a physics application book rather than a

calculus course the Calculus Primer includes exercises with full solutions These step by step solutions are important since many students will attempt to learn this material on their own So that the student can immediately see if he she has executed the calculus correctly using the given rules and algorithms the solutions have intentionally been left in an unsimplified form As the student works through the ten applications in the book Connection Boxes are provided in the margins to map the student to the appropriate section of the Calculus Primer to learn the necessary calculus tool to complete the application Because the Calculus Primer is designed to provide the necessary calculus tools on an as needed basis both the topics covered and their order is somewhat different from that of a standard introductory calculus text The applications are organized in terms of physical content rather than by calculus content Consequently physical concepts that are introduced early in a standard physics course appear earlier in this section than those introduced later in the course The following examples of the many applications of calculus in physics are covered in this book 1 Displacement Velocity and Acceleration 2 The Work Done by a Variable Force 3 Force and Potential Energy 4 The Electrical Mechanical Analogy 5 Impulse and Momentum 6 Kepler s Law of Areas and Conservation of Angular Momentum 7 Shockley s Equation and Thermodynamics 8 Simple Harmonic Oscillators 9 The Velocity of a Transverse Wave 10 Lagrangian Physics An Alternative Way to do Physics To help both the student and the instructor each application also ends with a set of exercises related to the topic of the application

Integrated Physics and Calculus Andrew F. Rex, Martin Jackson, 2000 This groundbreaking new text combines the second and third semesters of calculus with the first and second semesters of calculus based physics Used successfully at the authors school in a two semester course the text provides full integration of the math and physics Through text and problems the authors carefully develop the calculus so that it can be used in many physical applications In turn the physics provides examples for the development of the calculus concepts As a result students gain a full understanding of calculus and its relevance to physics

Physics Eugene Hecht, 1996 While the text covers the standard range of material from kinematics to quantum physics Hecht has carefully limited the math required to basic calculus and very basic vector analysis He omits obscure high level topics while focusing on helping students understand the fundamental concepts of modern day physics Calculus and vector analysis are both painstakingly developed as tools and then used only insofar as they illuminate the physics Hecht deliberately goes slowly justifies where each topic is going stops to take stock of where the students have been and points out the marvelous unity of the discourse Informed by a 20th century perspective and a commitment to providing a conceptual overview of the discipline this book is a return to basics

Calculus For Physics Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Calculus For Physics**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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Calculus For Physics Introduction

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