

Holt Physics

Problem 2E**FINAL VELOCITY AFTER ANY DISPLACEMENT****PROBLEM**

In 1970, a rocket-powered car called *Blue Flame* achieved a maximum speed of 1.00×10^3 km/h (278 m/s). Suppose the magnitude of the car's constant acceleration is 5.56 m/s^2 . If the car is initially at rest, what is the distance traveled during its acceleration?

SOLUTION**1. DEFINE**

Given:

$$v_i = 0 \text{ m/s}$$

$$v_f = 278 \text{ m/s}$$

$$a = 5.56 \text{ m/s}^2$$

Unknown:

$$\Delta x = ?$$

2. PLAN

Choose an equation(s) or situation: Use the equation for the final velocity after any displacement.

$$v_f^2 = v_i^2 + 2a\Delta x$$

Rearrange the equation(s) to isolate the unknown(s):

$$\Delta x = \frac{v_f^2 - v_i^2}{2a}$$

3. CALCULATE

Substitute the values into the equation(s) and solve:

$$\Delta x = \frac{\left(278 \frac{\text{m}}{\text{s}}\right)^2 - \left(0 \frac{\text{m}}{\text{s}}\right)^2}{(2)\left(5.56 \frac{\text{m}}{\text{s}^2}\right)} = \boxed{6.95 \times 10^3 \text{ m}}$$

4. EVALUATE

Using the appropriate kinematic equation, the time of travel for *Blue Flame* is found to be 50.0 s. From this value for time the distance traveled during the acceleration is confirmed to be almost 7 km. Once the car reaches its maximum speed, it travels about 16.7 km/min.

ADDITIONAL PRACTICE

1. In 1976, Kitty Hambleton of the United States drove a rocket-engine car to a maximum speed of 965 km/h. Suppose Kitty started at rest and underwent a constant acceleration with a magnitude of 4.0 m/s^2 . What distance would she have had to travel in order to reach the maximum speed?
2. With a cruising speed of 2.30×10^3 km/h, the French supersonic passenger jet Concorde is the fastest commercial airplane. Suppose the landing speed of the Concorde is 20.0 percent of the cruising speed. If the plane accelerates at -5.80 m/s^2 , how far does it travel between the time it lands and the time it comes to a complete stop?

Holt Physics Chapter 2 Packet

Jianjun Gao

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Holt Physics Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-03 **Holt Physics** Raymond A. Serway, 2002 *Holt Physical Science* Mapi M. Cuevas, 1994 *Physics* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2006 **Fundamentals of Solid-state Electronics** Chih-Tang Sah, 1991 This is perhaps the most comprehensive undergraduate textbook on the fundamental aspects of solid state electronics It presents basic and state of the art topics on materials physics device physics and basic circuit building blocks not covered by existing textbooks on the subject Each topic is introduced with a historical background and motivations of device invention and circuit evolution Fundamental physics is rigorously discussed with minimum need of tedious algebra and advanced mathematics Another special feature is a systematic classification of fundamental mechanisms not found even in advanced texts It bridges the gap between solid state device physics covered here with what students have learnt in their first two years of study Used very successfully in a one semester introductory core course for electrical and other engineering materials science and physics junior students the second part of each chapter is also used in an advanced undergraduate course on solid state devices The inclusion of previously unavailable analyses of the basic transistor digital circuit building blocks and cells makes this an excellent reference for engineers to look up fundamental concepts and data design formulae and latest devices such as the GeSi heterostructure bipolar transistors **Quantum Optics and Fundamentals of Physics** Jan Perina, Z. Hradil, B. Jurco, 2012-12-06 In last years increasing attention has been again devoted to interpretations of quantum theory In the same time interesting quantum optical experiments have been performed using nonlinear optical processes in particular frequency down conversion which provided new information about nature of a photon on the basis of interference and correlation coincidence phenomena Such single photon and twin photon effects of quantum optics provide new point of view of interpretations of quantum theory and new tests of its principles The purpose of this book is to discuss these questions To follow this goal we give brief reviews of principles of quantum theory and of quantum theory of measurement As a fundamental theoretical tool the coherent state technique is adopted based on a general algebraic treatment including the description of interaction of radiation and matter Typical quantum behaviour of physical systems is exhibited by nonclassical optical phenomena which can be examined using photon interferences and correlations These phenomena are closely related to violation of various classical inequalities and Bell's inequalities The most important part of this book discusses quantum optical experiments supporting quantum theory This book may be considered as a continuation of previous monographs by one of the authors on Coherence of Light Van Nostrand Reinhold London 1972 second edition D Reidel Dordrecht 1985 and on Quantum Statistics of Linear and Nonlinear Optical Phenomena D Reidel Dordrecht 1984 second edition Kluwer Dordrecht 1991 which may serve as a preparation for reading this book **Books in Print Supplement**, 2002 Holt Science Examination Package, 1986 Forthcoming Books Rose Arny, 2004 Physics and Philosophy: Volume 4 Paul K.

Feyerabend, 2015-09-17 This collection of the writings of Paul Feyerabend is focused on his philosophy of quantum physics the hotbed of the key issues of his most debated ideas Written between 1948 and 1970 these writings come from his first and most productive period These early works are important for two main reasons First they document Feyerabend's deep concern with the philosophical implications of quantum physics and its interpretations These ideas were paid less attention in the following two decades Second the writings provide the crucial background for Feyerabend's critiques of Karl Popper and Thomas Kuhn Although rarely considered by scholars Feyerabend's early work culminated in the first version of *Against Method* These writings guided him on all the key issues of his most well known and debated theses such as the incommensurability thesis the principles of proliferation and tenacity and his particular version of relativism and more specifically on quantum mechanics

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