

CHAPTER 1

Kinematics of Particles

Solutions to Tutorial Questions

Q1.1 $a=0.3 \text{ m/s}^2$, $u=0$, $v=22 \text{ m/s}$

The distance s in the acceleration phase is:

$$v^2 = u^2 + 2as \Rightarrow (22)^2 = 0 + 2 \times 0.3 \times s \Rightarrow s = 806.67 \text{ m} = 0.807 \text{ km}$$

The time in the acceleration phase is:

$$v = u + at \Rightarrow 22 = 0 + 0.3 \times t \Rightarrow t = 73.33 \text{ s} = 1 \text{ min } 13.33 \text{ s}$$

b) $t = 1 \text{ min}$, $v=0$, $u = 22.347 \text{ m/s}$

The acceleration a is:

$$v = u + at \Rightarrow 0 = 22 + a \times 60 \Rightarrow a = -0.367 \text{ m/s}^2$$

To calculate the distance s in the deceleration phase:

$$v^2 = u^2 + 2as \Rightarrow 0 = (22)^2 + 2 \times (-0.367) \times s \Rightarrow s = 660 = 0.66 \text{ km}$$

c) Distance during the constant velocity = $11 - 0.807 - 0.66 = 9.533 \text{ km}$

Time during the constant velocity is:

$$t = \frac{s}{v} = \frac{9.533 \times 1000}{22} = 433.318 \text{ s} = 7 \text{ min } 13.318 \text{ s}$$

Total time of the journey: $1 \text{ min } 13.33 \text{ s} + 7 \text{ min } 13.318 \text{ s} + 1 \text{ min} = 9 \text{ min } 27 \text{ s}$

Q1.2.a) $u=0$, $a=4 \text{ m/s}^2$:

$$v^2 = u^2 + 2as \Rightarrow v^2 = 0 + 2 \times 4 \times 200 \Rightarrow v = 40 \text{ m/s}$$

b) $v = u + at \Rightarrow 40 = 0 + 4 \times t \Rightarrow t = 10 \text{ s}$

Q1.3. a) For the acceleration phase:

Acceleration phase, $u=0$, $v=v_1=80 \text{ m/s}$, $a=a_1=4 \text{ m/s}^2$:



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Dynamics of Particles and Rigid Bodies Anil Rao, 2005-11-14 This 2006 book is intended for undergraduate courses in dynamics The work is a unique blend of conceptual theoretical and practical aspects of dynamics generally not found in dynamics books at the undergraduate level In particular in this book the concepts are developed in a highly rigorous manner and are applied to examples using a step by step approach that is completely consistent with the theory In addition for clarity the notation used to develop the theory is identical to that used to solve example problems The result of this approach is that a student is able to see clearly the connection between the theory and the application of theory to example problems While the material is not new instructors and their students will appreciate the highly pedagogical approach that aids in the mastery and retention of concepts The approach used in this book teaches a student to develop a systematic approach to problem solving **Mechanical Engineering News** , 1978 Engineering Education , 1974 **Subject Guide to Books in Print** , 1983 Final Program , 1999 Nuclear Science Abstracts , 1967 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available **New Technical Books** New York Public Library, 1948 Classified Catalogue of the Carnegie Library of Pittsburgh, 1912-1916 Carnegie Library of Pittsburgh, 1918 **Classified Catalog of the Carnegie Library of Pittsburgh** Carnegie Library of Pittsburgh, 1907 Scientific and Technical Aerospace Reports , 1994

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Table of Contents Dynamics Kinematics Of Particles Solution Manual

1. Understanding the eBook Dynamics Kinematics Of Particles Solution Manual
 - The Rise of Digital Reading Dynamics Kinematics Of Particles Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Dynamics Kinematics Of Particles Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Dynamics Kinematics Of Particles Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dynamics Kinematics Of Particles Solution Manual

- Personalized Recommendations
- Dynamics Kinematics Of Particles Solution Manual User Reviews and Ratings
- Dynamics Kinematics Of Particles Solution Manual and Bestseller Lists
- 5. Accessing Dynamics Kinematics Of Particles Solution Manual Free and Paid eBooks
 - Dynamics Kinematics Of Particles Solution Manual Public Domain eBooks
 - Dynamics Kinematics Of Particles Solution Manual eBook Subscription Services
 - Dynamics Kinematics Of Particles Solution Manual Budget-Friendly Options
- 6. Navigating Dynamics Kinematics Of Particles Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Dynamics Kinematics Of Particles Solution Manual Compatibility with Devices
 - Dynamics Kinematics Of Particles Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dynamics Kinematics Of Particles Solution Manual
 - Highlighting and Note-Taking Dynamics Kinematics Of Particles Solution Manual
 - Interactive Elements Dynamics Kinematics Of Particles Solution Manual
- 8. Staying Engaged with Dynamics Kinematics Of Particles Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Dynamics Kinematics Of Particles Solution Manual
- 9. Balancing eBooks and Physical Books Dynamics Kinematics Of Particles Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dynamics Kinematics Of Particles Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Dynamics Kinematics Of Particles Solution Manual
 - Setting Reading Goals Dynamics Kinematics Of Particles Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Dynamics Kinematics Of Particles Solution Manual

- Fact-Checking eBook Content of Dynamics Kinematics Of Particles Solution Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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