

Directions: Answer the following motion problems using the kinematic equations. Show your work and circle your final answer.

1. A speedboat increases in speed uniformly from 20m/s to 30m/s in a distance of 200m. What is the acceleration of the speedboat?

$$v_f = 30 \frac{m}{s}$$

$$v_i = 20 \frac{m}{s}$$

$$a = ?$$

$$t = xxx$$

$$d = 200m$$

$$v_f^2 = v_i^2 + 2ad$$

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

$$a = \frac{(30 \frac{m}{s})^2 - (20 \frac{m}{s})^2}{2(200m)}$$

$$a = 1.25 \frac{m}{s^2}$$

2. A driver in a car traveling at a speed of 60 mi/hr sees a deer in the middle of the road 100m away. What is the minimum constant acceleration that is necessary for the car to stop?

$$v_f = 0 \frac{m}{s}$$

$$v_i = 26.82 \frac{m}{s}$$

$$a = ?$$

$$t = xxx$$

$$d = 100m$$

$$\frac{60mi}{1hr} \times \frac{5280ft}{1mi} \times \frac{12in}{1ft} \times \frac{2.54cm}{1in} \times \frac{1m}{100cm} \times \frac{1hr}{3600s} = 26.82 \frac{m}{s}$$

$$v_f^2 = v_i^2 + 2ad$$

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

$$a = \frac{(0 \frac{m}{s})^2 - (26.82 \frac{m}{s})^2}{2(100m)}$$

$$a = -3.60 \frac{m}{s^2}$$

3. Julie is walking around a track at a 2m/s for some exercise. She then decides to start jogging so she accelerates at a rate of 0.5m/s² for 3 seconds. How far did Julie travel from the time she started to accelerate to the end of the 3 seconds?

$$v_f = xxx$$

$$v_i = 2 \frac{m}{s}$$

$$a = 0.5 \frac{m}{s^2}$$

$$t = 3s$$

$$d = ?$$

$$d = v_i t + \frac{1}{2} a t^2$$

$$d = (2 \frac{m}{s})(3s) + \frac{1}{2} (0.5 \frac{m}{s^2})(3s)^2$$

$$d = 8.25m$$

4. A rocket accelerates at a rate of 16.4m/s² for a distance of 50m. What is the velocity at the end of the 50m?

$$v_f = ?$$

$$v_i = 0 \frac{m}{s}$$

$$a = 16.4 \frac{m}{s^2}$$

$$t = xxx$$

$$d = 50m$$

$$v_f^2 = v_i^2 + 2ad$$

$$v_f = \sqrt{v_i^2 + 2ad}$$

$$v_f = \sqrt{2(16.4 \frac{m}{s^2})(50m)}$$

$$v_f = 40.50 \frac{m}{s}$$

Kinematics Workseet 2 Answer Key

Victor M. Corman



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Continuum Micromechanics Dazhi Jiang, 2023-03-11 The book integrates theory numerical methods and practical applications seamlessly MATLAB and MathCad programs are provided for readers to master the theory understand the approach and to further develop and apply the methods to geological problems Multiscale and multi physics investigations of Earth and planetary processes have been an active trend of research in Earth Sciences thanks to the development of scientific computation and computer software and hardware Based on the author s research and teaching over the past 15 years the book stands alone as the first comprehensive text in unifying fundamental continuum micromechanics theory geometric kinematic analysis and applications The book should appeal to a broad audience of students and researchers particularly those in the fields of structural geology tectonics natural and experimental rock deformation mineral physics and rheology and numerical modeling of multiscale and coupling processes

An Introduction to Inverse Problems with Applications Francisco Duarte Moura Neto, Antônio José da Silva Neto, 2012-09-14 Computational engineering science uses a blend of applications mathematical models and computations Mathematical models require accurate approximations of their parameters which are often viewed as solutions to inverse problems Thus the study of inverse problems is an integral part of computational engineering science This book presents several aspects of inverse problems along with needed prerequisite topics in numerical analysis and matrix algebra If the reader has previously studied these prerequisites then one can rapidly move to the inverse problems in chapters 4 8 on image restoration thermal radiation thermal characterization and heat transfer This text does provide a comprehensive introduction to inverse problems and fills a void in the literature Robert E White Professor of Mathematics North Carolina State University *Byte*, 1990

DHM and Posturography Sofia Scataglini, Gunther Paul, 2019-08-22 DHM and Posturography explores the body of knowledge and state of the art in digital human modeling along with its application in ergonomics and posturography The book provides an industry first introductory and practitioner focused overview of human simulation tools with detailed chapters describing elements of posture postural interactions and fields of application Thus DHM tools and a specific scientific practical problem the study of posture are linked in a coherent framework In addition sections show how DHM interfaces with the most common physical devices for posture analysis Case studies provide the applied knowledge necessary for practitioners to make informed decisions Digital Human Modelling is the science of representing humans with their physical properties characteristics and behaviors in computerized virtual models These models can be used standalone or integrated with other computerized object design systems to design or study designs

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