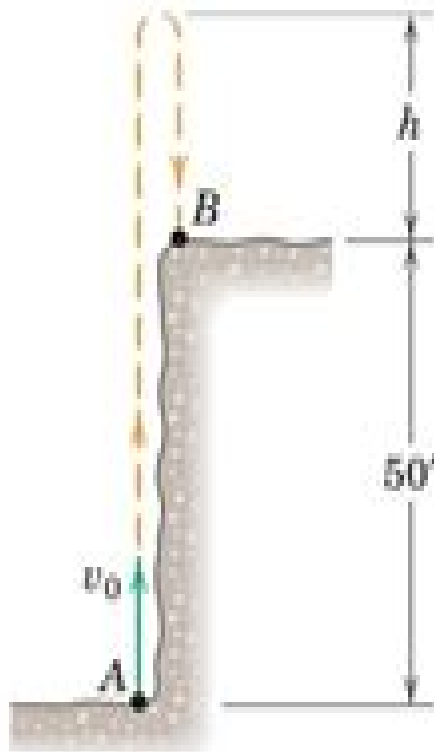


Rectilinear Motion

A ball is thrown vertically upward with an initial speed of 80 ft/sec from the base A of a 50-ft cliff. Determine the distance h by which the ball clears the top of the cliff and the time t after release for the ball to land at B. Also, calculate the impact velocity v_B . Neglect air resistance and the small horizontal motion of the ball.



Kinematics of Particle

Diagram illustrating the kinematics of the ball's motion. A vertical line represents the path, with point A at the base and point B at the top of the cliff. A red arrow points upwards from A, and a red arrow points downwards from B. The distance from A to B is 50 ft.

$$v^2 = v_0^2 + 2a(s - s_0)$$
$$v_B^2 = v_A^2 + 2(-g)s_{AB}$$
$$v_B^2 = 80^2 - 2 \times 32.2 \times 50$$
$$v_B = \sqrt{3180} = \pm 56.4 \text{ ft/sec}$$

$\therefore v_B = 56.4 \text{ ft/sec} \downarrow$

Solution

Kinematics Of Particles Problems And Solutions

Dalhousie University



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700 Solved Problems In Vector Mechanics for Engineers: Dynamics Joseph F. Shelley, 1991-04 Suitable for 2nd year college and university engineering students this book provides them with a source of problems with solutions in vector mechanics that covers various aspects of the basic course It offers the comprehensive solved problem reference in the subject It also provides the student with the problem solving drill

EIT Industrial Review Donovan Young, 2003-09-18 This guide is written for the afternoon FE EIT Industrial Exam and reviews each topic with numerous example problems and complete step by step solutions End of chapter problems with solutions and a complete sample exam with solutions are provided Topics covered Production Planning and Scheduling Engineering Economics Engineering Statistics Statistical Quality Control Manufacturing Processes Mathematical Optimization and Modeling Simulation Facility Design and Location Work Performance and Methods Manufacturing Systems Design Industrial Ergonomics Industrial Cost Analysis Material Handling System Design Total Quality Management Computer Computations and Modeling Queuing Theory and Modeling Design of Industrial Experiments Industrial Management Information System Design Productivity Measurement and Management 101 problems with complete solutions SI Units

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Particles and Fundamental Interactions: Supplements, Problems and Solutions Sylvie Braibant, Giorgio Giacomelli, Maurizio Spurio, 2012-04-17 This volume is an exercises and solutions manual that complements the book Particles and Fundamental Interactions by Sylvie Braibant Giorgio Giacomelli and Maurizio Spurio It aims to give additional intellectual stimulation for students in experimental particle physics It will be a helpful companion in the preparation of a written examination but also it provides a means to gaining a deeper understanding of high energy physics The problems proposed are sometimes true and important research questions which are described and solved in a step by step manner In addition to the problems and solutions this book offers fifteen Supplements that give further insight into topical subjects related to particle accelerators signal and data acquisition systems and computational methods to treat them

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manufacturing optimizing and processing with wide ranging applications The contents of this book can be of interest to researchers and professionals alike **Dynamics in Engineering Practice** Dara W. Childs, Andrew P. Conkey, 2015-04-17

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