

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

A vertical line represents the path of the ball. Point A is at the bottom, point B is at the top of the cliff, and point C is at the peak of the ball's trajectory. A red arrow points upwards from A towards C . A red arrow points downwards from C towards B .

$$C \quad v^2 = v_0^2 + 2a(s - s_0)$$
$$v_B^2 = v_A^2 + 2(-g)S_{AB}$$
$$\uparrow \quad v_B^2 = 80^2 - 2 \times 32.2 \times 50$$
$$v_B = \sqrt{3180} = \pm 56.4 \text{ ft/sec}$$
$$A \quad \therefore v_B = \underline{\underline{56.4 \text{ ft/sec} \downarrow}}$$

Solution

Rectilinear Motion Problems And Solutions Chacheore

Victor M. Corman



Rectilinear Motion Problems And Solutions Chacheore:

Enjoying the Melody of Appearance: An Psychological Symphony within **Rectilinear Motion Problems And Solutions Chacheore**

In some sort of used by monitors and the ceaseless chatter of fast transmission, the melodic beauty and psychological symphony created by the published term often diminish in to the backdrop, eclipsed by the persistent sound and disturbances that permeate our lives. However, set within the pages of **Rectilinear Motion Problems And Solutions Chacheore** a wonderful literary value filled with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, this charming masterpiece conducts viewers on an emotional journey, well unraveling the concealed melodies and profound affect resonating within each cautiously constructed phrase. Within the depths of the moving examination, we will discover the book is key harmonies, analyze its enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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