

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

$$v^2 = v_0^2 + 2a(s - s_0)$$

$$v_B^2 = v_A^2 + 2(-g)S_{AB}$$

$$v_B^2 = 80^2 - 2 \times 32.2 \times 50$$

$$v_B = \sqrt{3180} = \pm 56.4 \text{ ft/sec}$$

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

Diagram labels: C (top), B (middle), A (bottom). A red arrow points up from A to C , and a red arrow points down from C to B .

Solution

Rectilinear Motion Problems And Solutions

Clemens Wendtner



Rectilinear Motion Problems And Solutions:

Reviewing **Rectilinear Motion Problems And Solutions**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Rectilinear Motion Problems And Solutions**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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