

Problem 1.14

Two points

Consider two points located at \mathbf{r}_1 and \mathbf{r}_2 , and separated by distance $r = |\mathbf{r}_1 - \mathbf{r}_2|$. Find a time-dependent vector $\mathbf{A}(t)$ from the origin that is at \mathbf{r}_1 at time t_1 and at \mathbf{r}_2 at time $t_2 = t_1 + T$. Assume that $\mathbf{A}(t)$ moves uniformly along the straight line between the two points.