

EXAMPLE 12.9

At any instant the horizontal position of the weather balloon in Fig. 12-18a is defined by $x = (8t)$ ft, where t is in seconds. If the equation of the path is $y = x^2/10$, determine the magnitude and direction of the velocity and the acceleration when $t = 2$ s.

SOLUTION

Velocity. The velocity component in the x direction is

$$v_x = \dot{x} = \frac{d}{dt}(8t) = 8 \text{ ft/s} \rightarrow$$

To find the relationship between the velocity components we will use the chain rule of calculus. When $t = 2$ s, $x = 8(2) = 16$ ft, Fig. 12-18a, and so

$$v_y = \dot{y} = \frac{d}{dt}(x^2/10) = 2x\dot{x}/10 = 2(16)(8)/10 = 25.6 \text{ ft/s} \uparrow$$

When $t = 2$ s, the magnitude of velocity is therefore

$$v = \sqrt{(8 \text{ ft/s})^2 + (25.6 \text{ ft/s})^2} = 26.8 \text{ ft/s} \quad \text{Ans.}$$

The direction is tangent to the path, Fig. 12-18b, where

$$\theta_v = \tan^{-1} \frac{v_y}{v_x} = \tan^{-1} \frac{25.6}{8} = 72.6^\circ \quad \text{Ans.}$$

Acceleration. The relationship between the acceleration components is determined using the chain rule. (See Appendix C.) We have

$$a_x = \dot{v}_x = \frac{d}{dt}(8) = 0$$

$$\begin{aligned} a_y = \dot{v}_y &= \frac{d}{dt}(2x\dot{x}/10) = 2(\dot{x}\dot{x}/10) + 2x(\ddot{x})/10 \\ &= 2(8)^2/10 + 2(16)(0)/10 = 12.8 \text{ ft/s}^2 \uparrow \end{aligned}$$

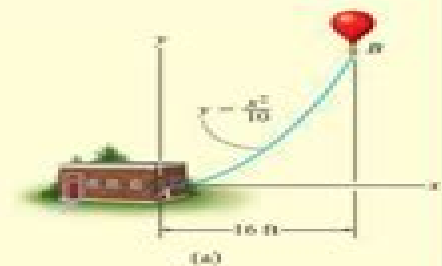
Thus,

$$a = \sqrt{(0)^2 + (12.8)^2} = 12.8 \text{ ft/s}^2 \quad \text{Ans.}$$

The direction of $\mathbf{a}$, as shown in Fig. 12-18c, is

$$\theta_a = \tan^{-1} \frac{12.8}{0} = 90^\circ \quad \text{Ans.}$$

NOTE: It is also possible to obtain v_y and a_y by first expressing $y = f(t) = (8t)^2/10 = 6.4t^2$ and then taking successive time derivatives.



(a)



(b)



Fig. 12-18

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N. Jeremy Kasdin, Derek A. Paley



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Est dirigido a profesionales y estudiantes de ingeniería como un referente que indica a través de diferentes ejercicios desarrollados alternativas para el análisis de mecanismos. En el primer capítulo y en la primera parte de los demás se hace un breve análisis de los fundamentos necesarios para abordar las tres metodologías de análisis. Además en la parte final del primer capítulo se hace una presentación de los mecanismos analizados cinemáticamente en los capítulos subsiguientes. Con el método gráfico del segundo capítulo se hace una presentación básica para el análisis cinemático de mecanismos en una posición particular. Este método además se utiliza como referencia para validar los resultados de otras metodologías como la vectorial o de número complejo presentadas en los capítulos 3 y 4. El análisis vectorial del capítulo 3 hace uso de vectores para representar las posiciones, las velocidades y las aceleraciones así como para representar relaciones de dirección y sentido entre distintos elementos del mecanismo. De forma similar al capítulo 3 en el capítulo 4 se emplean números complejos para representar las magnitudes vectoriales simplificando el cálculo de las cantidades involucradas. Para finalizar en el capítulo 5 se presenta el uso de las herramientas computacionales MATLAB o GNU Octave para programar los modelos matemáticos desarrollados en los capítulos 3 y 4 y establecer el comportamiento de un mecanismo en función de las condiciones de entrada. Los resultados obtenidos en este capítulo son validados mediante el uso del método gráfico del capítulo 2. En general este texto sobre cinemática de mecanismos planos proporciona una base teórica y práctica para comprender cómo se mueven y posicionan los componentes de un mecanismo utilizando herramientas analíticas y gráficas para el estudio de sistemas mecánicos.

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