

Figure 2/3

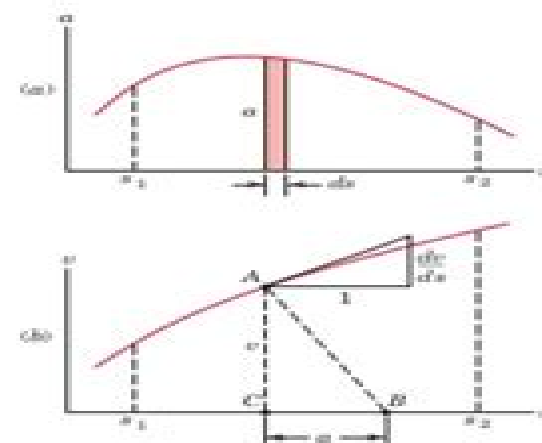


Figure 2/4

Graphical Interpretations

Interpretation of the differential equations governing rectilinear motion is considerably clarified by representing the relationships among s , v , a , and t graphically. Figure 2/3a is a schematic plot of the variation of s with t from time t_1 to time t_2 for some given rectilinear motion. By constructing the tangent to the curve at any time t , we obtain the slope, which is the velocity $v = ds/dt$. Thus, the velocity can be determined at all points on the curve and plotted against the corresponding time as shown in Fig. 2/3b. Similarly, the slope dv/dt of the v - t curve at any instant gives the acceleration at that instant, and the a - t curve can therefore be plotted as in Fig. 2/3c.

We now see from Fig. 2/3b that the area under the v - t curve during time dt is $v dt$, which from Eq. 2/1 is the displacement ds . Consequently, the net displacement of the particle during the interval from t_1 to t_2 is the corresponding area under the curve, which is

$$\int_{t_1}^{t_2} ds = \int_{t_1}^{t_2} v dt \quad \text{or} \quad s_2 - s_1 = (\text{area under } v\text{-}t \text{ curve})$$

Similarly, from Fig. 2/3c we see that the area under the a - t curve during time dt is $a dt$, which, from the first of Eqs. 2/2, is dv . Thus, the net change in velocity between t_1 and t_2 is the corresponding area under the curve, which is

$$\int_{v_1}^{v_2} dv = \int_{t_1}^{t_2} a dt \quad \text{or} \quad v_2 - v_1 = (\text{area under } a\text{-}t \text{ curve})$$

Note two additional graphical relations. When the acceleration a is plotted as a function of the position coordinate s , Fig. 2/4a, the area under the curve during a displacement ds is $a ds$, which, from Eq. 2/3, is $v dv = d(v^2/2)$. Thus, the net area under the curve between position coordinates s_1 and s_2 is

$$\int_{v_1}^{v_2} v dv = \int_{s_1}^{s_2} a ds \quad \text{or} \quad \frac{1}{2}(v_2^2 - v_1^2) = (\text{area under } a\text{-}s \text{ curve})$$

When the velocity v is plotted as a function of the position coordinate s , Fig. 2/4b, the slope of the curve at any point A is dv/ds . By constructing the normal AB to the curve at this point, we see from the similar triangles that $CB/v = dv/ds$. Thus, from Eq. 2/3, $CB = v(dv/ds) = a$, the acceleration. It is necessary that the velocity and position coordinate axes have the same numerical scales so that the acceleration read on the position coordinate scale in meters (or feet), say, will represent the actual acceleration in meters (or feet) per second squared.

The graphical representations described are useful not only in visualizing the relationships among the several motion quantities but also in obtaining approximate results by graphical integration or differentiation. The latter case occurs when a lack of knowledge of the mathematical relationship prevents its expression as an explicit mathematical function which can be integrated or differentiated. Experimental data and motions which involve discontinuous relationships between the variables are frequently analyzed graphically.

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