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•9-5. Determine the mass and the location of the center of mass \bar{x} of the rod if its mass per unit length is $m = m_0(1 + x/L)$.

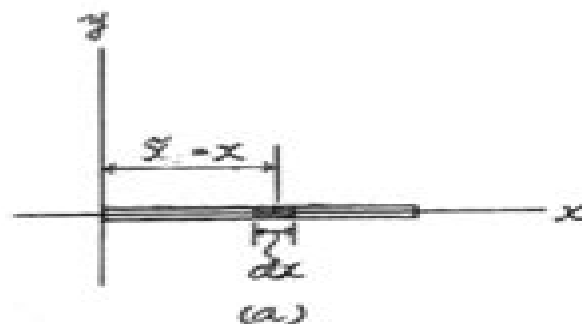


Differential Element. The element shown shaded in Fig. a has a mass of

$$\int_m dm = \int_0^L m_0 \left(1 + \frac{x}{L} \right) dx = \frac{3}{2} m_0 L \quad \text{Ans.}$$

The centroid of the differential element is located at $x_c = x$.

$$\bar{x} = \frac{\int_m x dm}{\int_m dm} = \frac{\int_0^L x \left[m_0 \left(1 + \frac{x}{L} \right) dx \right]}{\int_0^L m_0 \left(1 + \frac{x}{L} \right) dx} = \frac{\int_0^L \left(x + \frac{x^2}{L} \right) dx}{\int_0^L \left(1 + \frac{x}{L} \right) dx} = \frac{2}{3} L \quad \text{Ans.}$$



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Chapter 9

Sabine Zange



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