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8.3.2 Skydiving

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MO2.4

For the skydiving example in Section 8.2.2, dividing Equation (8.8) by m gives

$$\frac{\mathrm{d}V}{\mathrm{d}t} = g - \frac{1}{2}\frac{\rho_a V^2 A_{\text{ref}} C_D}{m} \tag{8.38}$$

which in terms of the general IVP form gives a scalar ($M = 1$) system of equations with

$$u = V \qquad f = g - \frac{1}{2}\frac{\rho_a u^2 A_{\text{ref}} C_D}{m} \tag{8.39}$$

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