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8.3.6 Neurons

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MO2.4

For the neuron example in Section 8.2.8, Equations (8.32) and (8.33) are also already in the IVP general form and this $M = 2$ system of equations has,

$$u_0 = V, \quad f_0 = \frac{1}{\tau_V}[u_0\,(u_0 - V_s)\,(1 - u_0) - u_1] + \mathrm{I}\,(t) \tag{8.46}$$

$$u_1 = W, \quad f_1 = \frac{1}{\tau_W}(\alpha u_0 - u_1) \tag{8.47}$$

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