

Figure 1.28

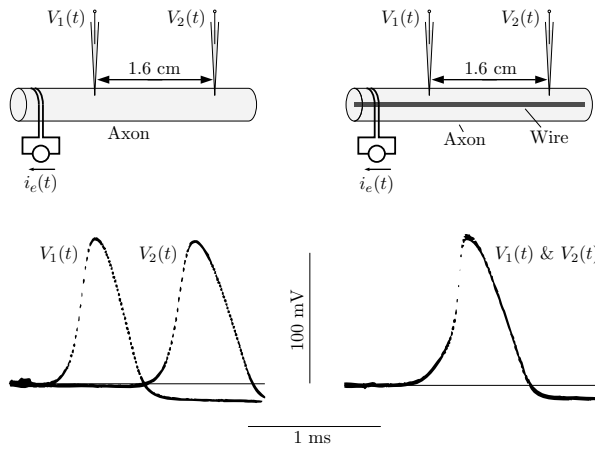


Figure 2.15

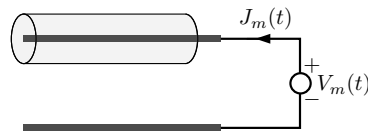


Figure 4.10

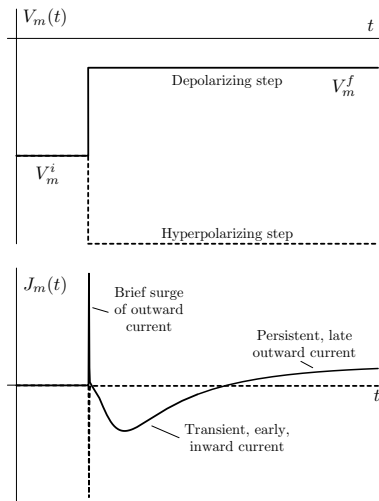


Figure 4.12

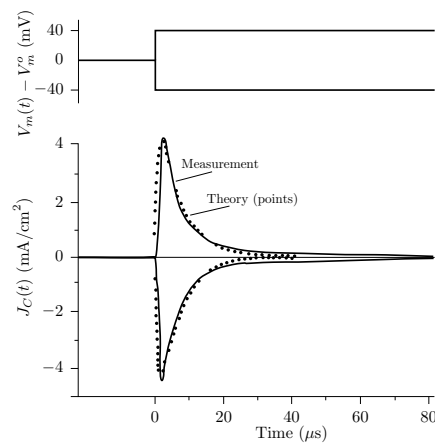


Figure 4.13

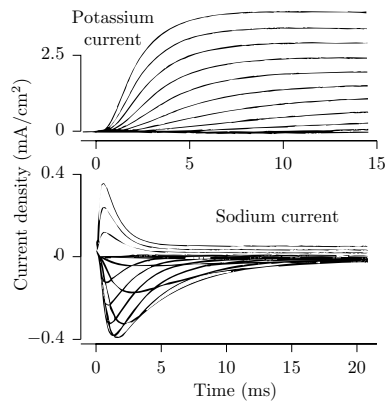


Figure 4.20

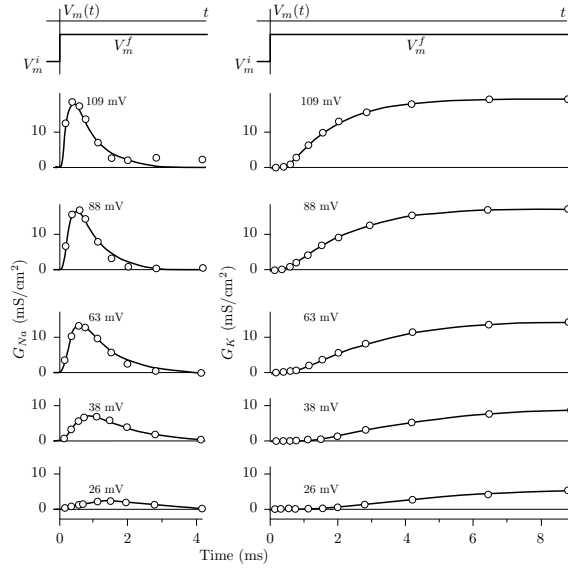
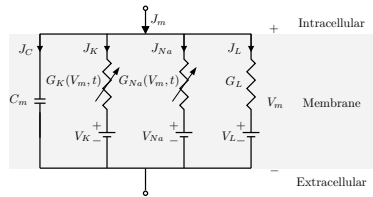


Figure 4.23

Hodgkin Huxley model



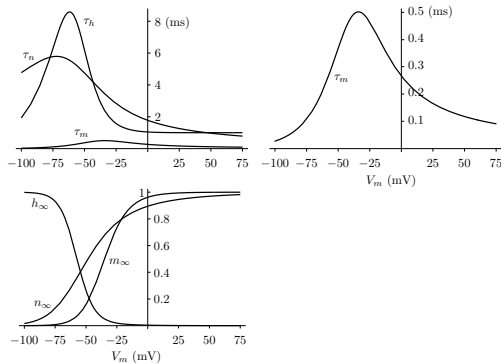
$$G_K(V_m, t) = \bar{G}_K n^4(V_m, t)$$

$$G_{Na}(V_m, t) = \bar{G}_{Na} m^3(V_m, t) h(V_m, t)$$

$$n(V_m, t) + \tau_n(V_m) \frac{dn(V_m, t)}{dt} = n_\infty(V_m)$$

$$m(V_m, t) + \tau_m(V_m) \frac{dm(V_m, t)}{dt} = m_\infty(V_m)$$

$$h(V_m, t) + \tau_h(V_m) \frac{dh(V_m, t)}{dt} = h_\infty(V_m)$$



$\bar{G}_{Na} = 120$, $\bar{G}_K = 36$, and $G_L = 0.3$ mS/cm²; $C_m = 1$ μF/cm²; $e_{Na} = 491$, $e_{K} = 50$, $e_L = 20.11$, $c_K = 400$ mmol/L; $V_L = -49$ mV; temperature is 6.3°C.

How to run HH model backwards?

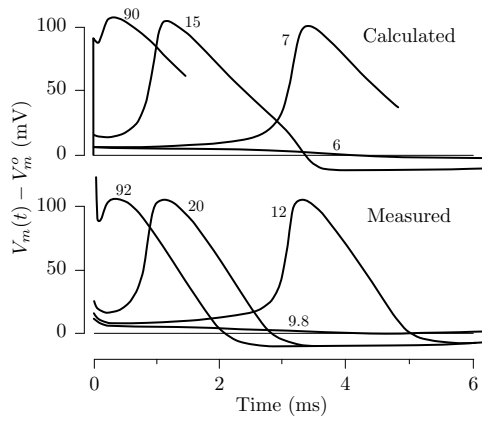
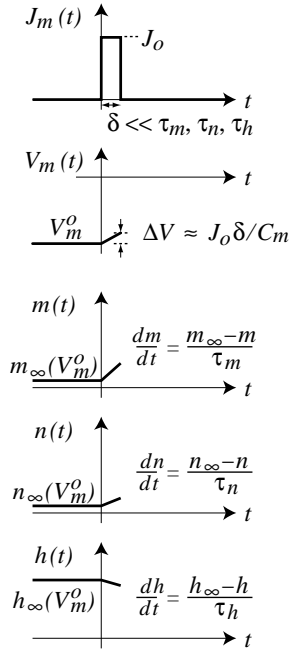


Figure 4.37

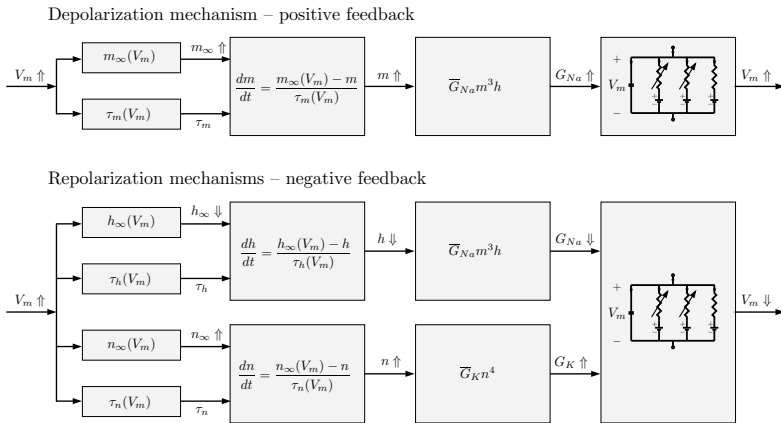
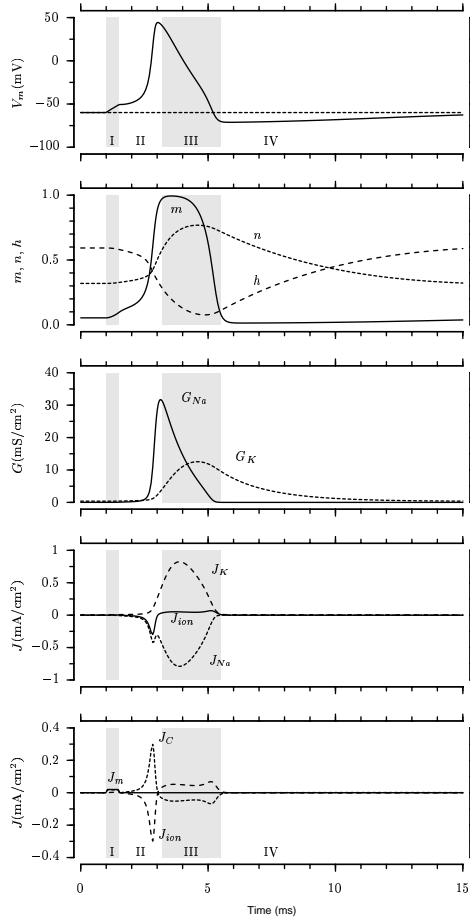


Figure 4.33

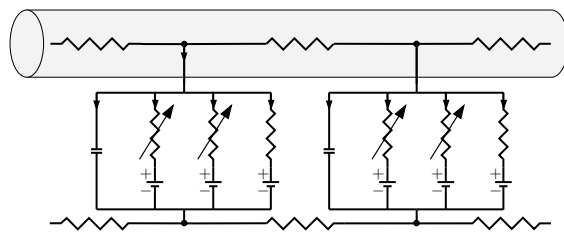


Figure 4.7

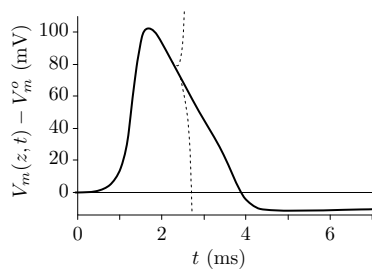


Figure 4.30

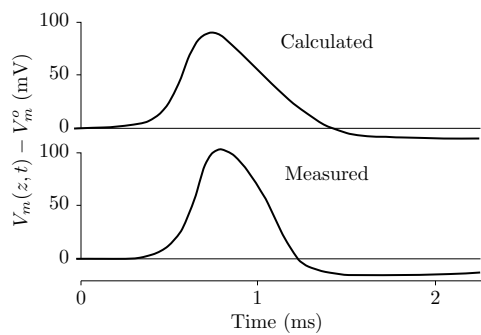


Figure 4.31

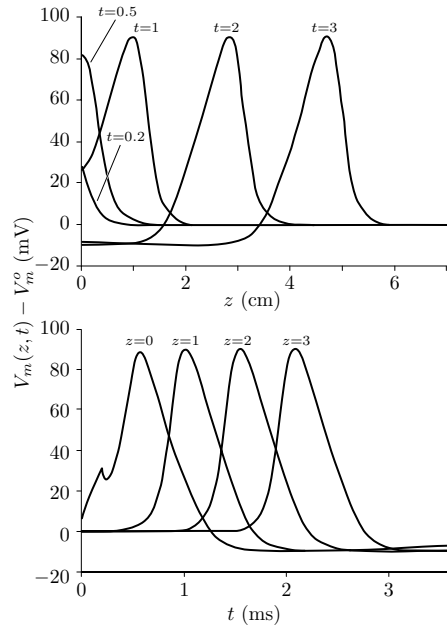


Figure 4.29

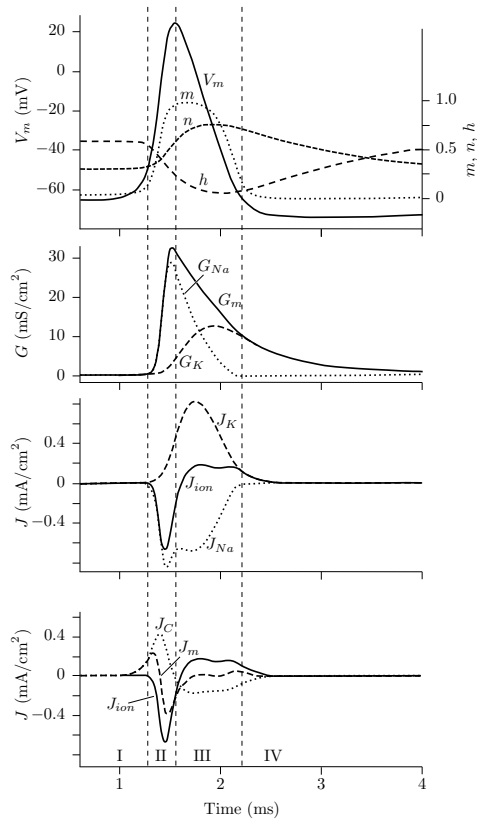


Figure 4.32