

**Ref**  
Shouval 2002

**Region**  
Cortex

**Bounds**  
Hard

**Fit**

**Equation**

$$\tau_w([Ca])dw/dt = \Omega([Ca])$$

**Parameters**

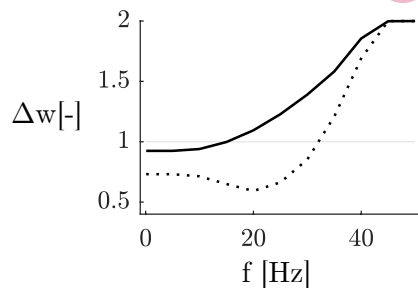
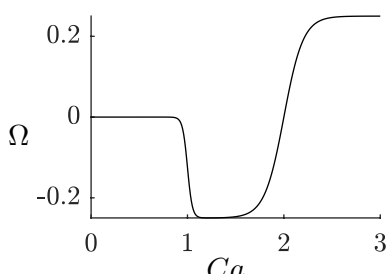
$$\begin{aligned}\tau_{Ca} &= 22.27212 & \theta_p &= 2.009289 \\ C_{pre} &= 0.8441 & \theta_d &= 1 \\ C_{post} &= 1.62138 & \gamma_p &= 597.08922 \\ D &= 9.53709 & \gamma_d &= 137.7586 \\ \tau_w &= 520761.29\end{aligned}$$

$$\begin{aligned}m_1 &= 0.25 & p_1 &= 4e3 \\ a_1 &= 1 & p_2 &= p_1 1e-6 \\ a_2 &= 2 & p_3 &= 2.4 \\ b_1 &= 40 & p_4 &= 1 \\ b_2 &= 10 \\ m_2 &= 0.5\end{aligned}$$

**Supplementary information**

$$\Omega([Ca]) = m_2 \exp(b_2([Ca] - a_2)) / (1 + \exp(b_2([Ca] - a_2))) - m_1 \exp(b_1([Ca] - a_1)) / (1 + \exp(b_1([Ca] - a_1)))$$

$$\tau_w([Ca]) = P_4 + \frac{P_1}{P_2 + [Ca]^{P_3}}$$



**Reset**

