

Ref
Shouval 2002

Region
Cortex

Bounds
Soft

Fit

6

Equation

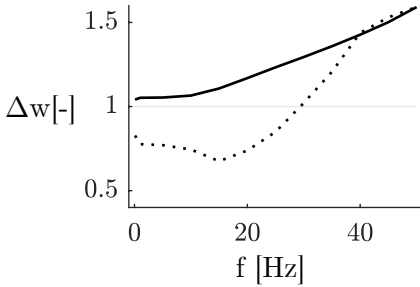
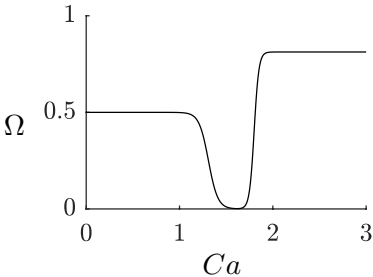
$$\tau_w([Ca])dw/dt = \Omega([Ca]) - w$$

Parameters

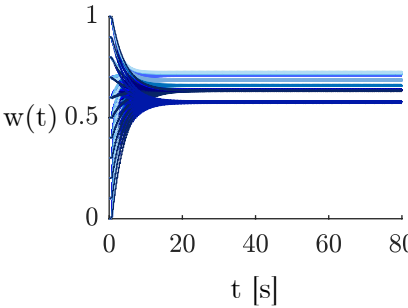
τ_{Ca}	= 22.27212	θ_p	= 2.009289
C_{pre}	= 0.8441	θ_d	= 1
C_{post}	= 1.62138	γ_p	= 597.08922
D	= 9.53709	γ_d	= 137.7586
τ_w	= 520761.29		
a_0	= 0.5	p_1	= 4e3
a_1	= 1.31	p_2	= $p_1 \cdot 1e-6$
a_2	= 1.8	p_3	= 2.4
b_1	= 20	p_4	= 1
b_2	= 40		
m_2	= $\gamma_p / (\gamma_d + \gamma_p)$		

Supplementary information

$$\Omega([Ca]) = a_0 - a_0 \exp\left(\frac{b_1([Ca] - a_1)}{1 + \exp(b_1([Ca] - a_1))}\right) + m_2 \exp\left(\frac{b_2([Ca] - a_2)}{1 + \exp(b_2([Ca] - a_2))}\right)$$



Reset



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

