

basic_ep_model

1 “environment” component

This component has no equations.

2 “intra_cellular_space” component

$$\frac{d(Na)}{d(time)} = I_Na$$

$$\frac{d(Ca)}{d(time)} = I_Ca$$

3 “extra_cellular_space” component

$$\frac{d(Na)}{d(time)} = -1.0 * I_Na$$

$$\frac{d(Ca)}{d(time)} = -1.0 * I_Ca$$

4 “cell_membrane” component

$$I_Na = v_Na * (Na.i - Na.e)$$

$$I_Ca = v_Ca * (Ca.i - Ca.e)$$