

basic_ep_model_with_encapsulation

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

This component has no equations.

5 “sodium_channel” component

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

6 “calcium_channel” component

$$I_{Ca} = v_{Ca} * (Ca_i - Ca_e)$$