









$g_{K} = \bar{g}_{K} n^{4}$	n=probability of 4 charged particles being in the correct configuration for conduction.
g _{Na} = g _{Na} m ³ h	n=probability of 3 charged particles being in the correct configuration.1-h=probability of inactivation.
n is the potassium activation parameter,m and h are the Na activation and inactivation parameters.	
$I_m = C_m dE/dt + I_k + I_{Na} + I_i$	
$=C_{m}dV/dt+g_{k}(E-E_{k})+g_{Na}(E-E_{Na})+g_{l}(E-E_{l})$	
$= C_m dV/dt + \overline{g}_{Na}n^4(E-E_k) + \overline{g}_{Na}m^3h$ (E-E _{Na})+g _l (E-E _l) With the voltage and time dependence of m,n and h the above equation can be solved for V by numerical integration	

































