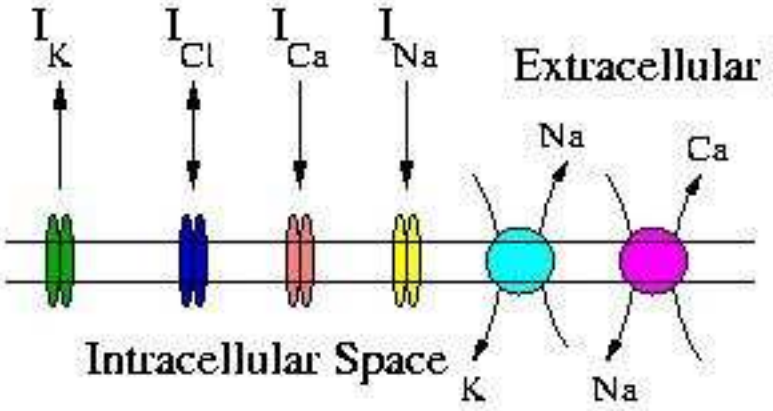

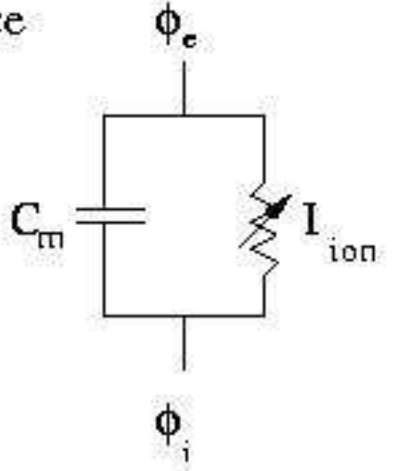

$$\phi = \phi_i - \phi_e$$