Y

1. Calculate the voltages in each compartment
2. Calculate the KCC2 and ATPase pump rate in each compartment (different)
3. Solve the ion flux in the Y direction across the membrane for each compartment (electrochemical gradient + pumps)
4. Solve the ion flux for each ion in the x direction (electrodiffusion equation)
5. Make adjustments for the ion concentrations based on movement between compartments
6. Calculate the volume change in each compartment
7. Correct ion concentrations based on new volumes

X