**Estimates of Violation of Continuity of Current**

Bob Eisenberg

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Rate equations equivalent to eq. (1) are



**Ratio** of Currents



Make all **concentrations equal to one**, to see what happens



Also, make all **valences equal to one**, and **concentrations equal to one**, to see what happens



OR

make all **rate constants equal to one**, and **concentrations equal to one**, to see what happens



Huge violations of continuity of current if valence changes or rate constant differences are not equal.