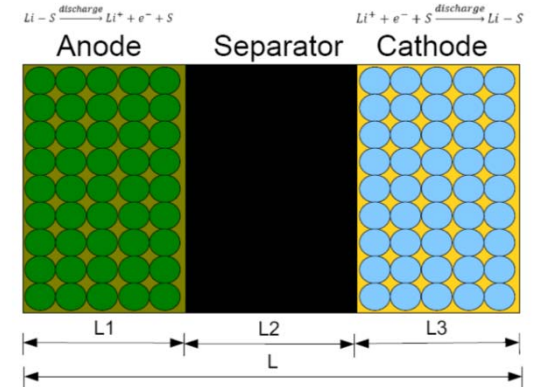


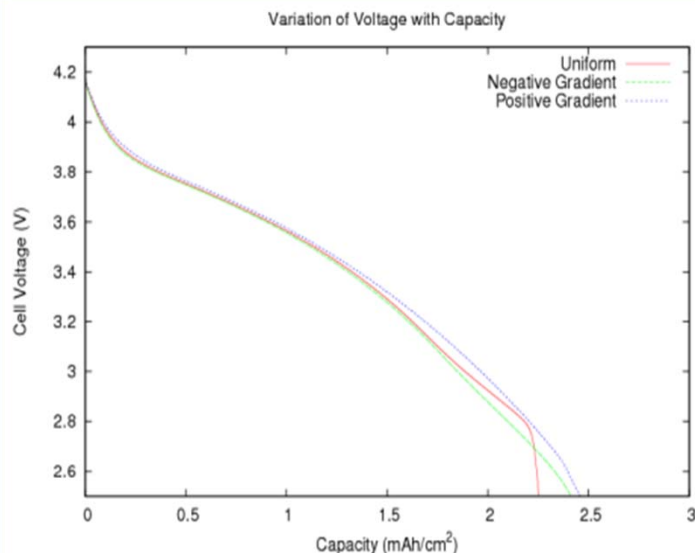
Predictive simulation

- Goal – predict safety and performance of battery
- AMPERES: Unified, Volume Averaged, 3D, Single Domain Formulation



Key features

- single-domain, single-set of equations
- multiple dimensions
- void fraction, tortuosity etc.
- thermal and mechanical variations
- broad range of EC systems



Design gradient electrodes with better performance

Can be utilized in conjunction with thermal/mechanical simulation tools for safety

