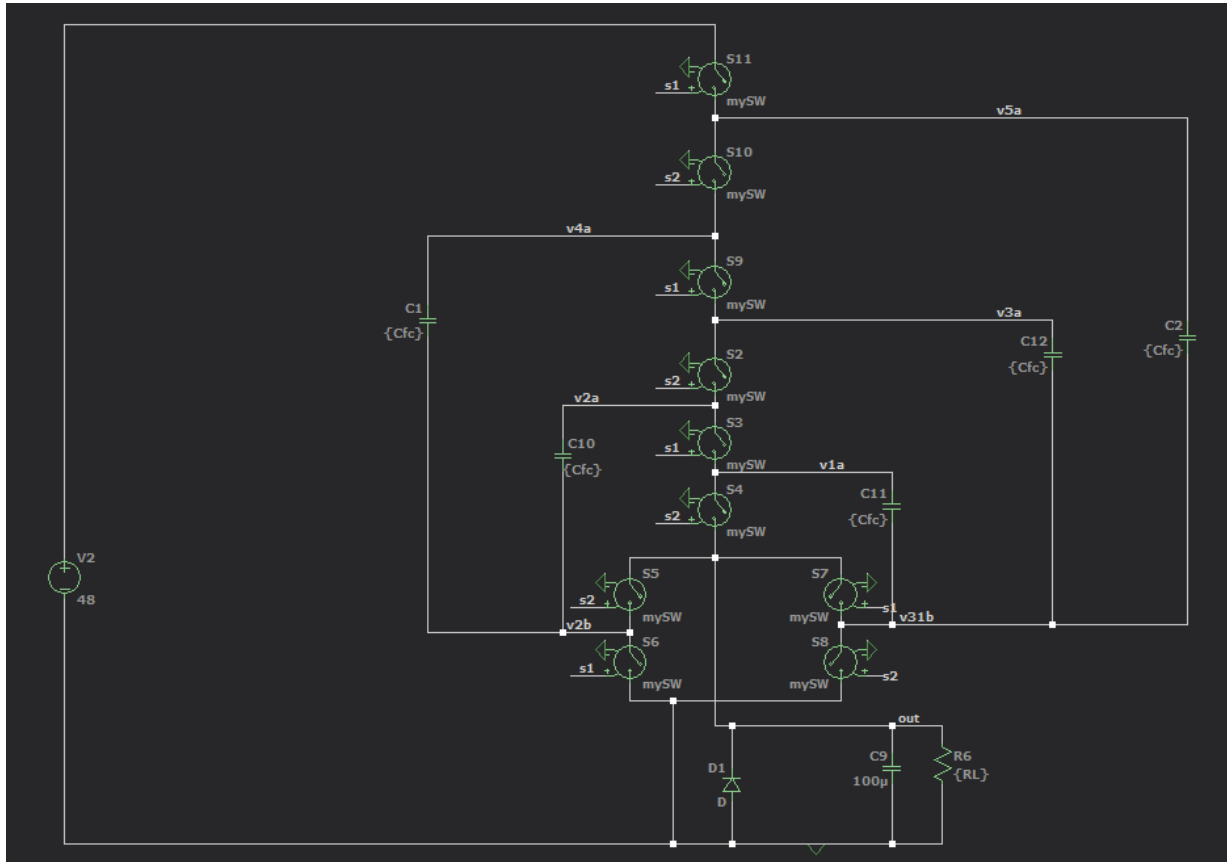
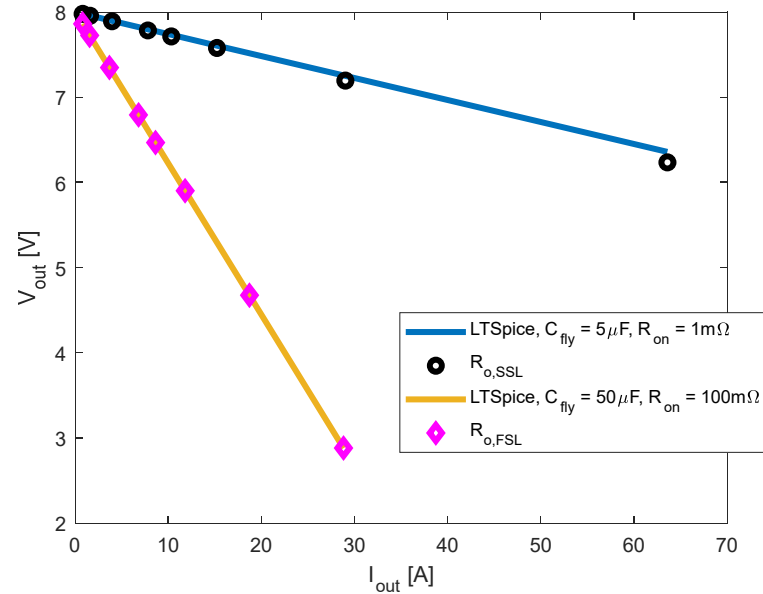


6:1 Dickson Converter Simulation



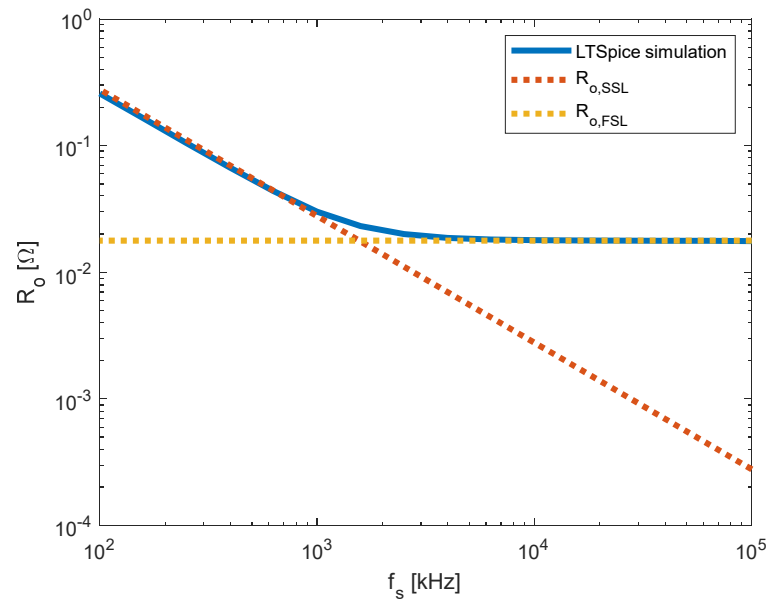
Simulation Comparison to Model

fixed $f_s = 1\text{MHz}$



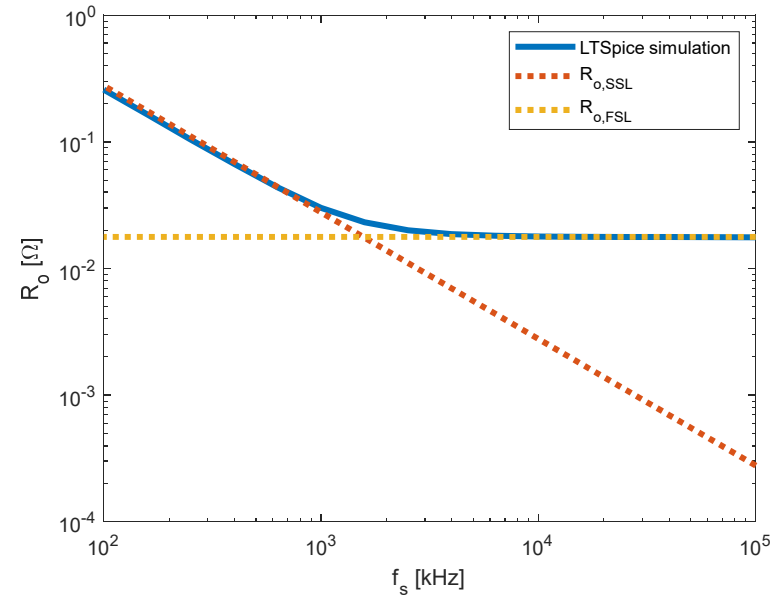
R_o vs Switching Frequency

fixed $R_{on} = 10\text{m}\Omega$, $C_{fly} = 5\mu\text{F}$

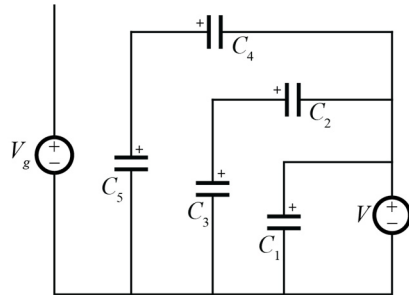
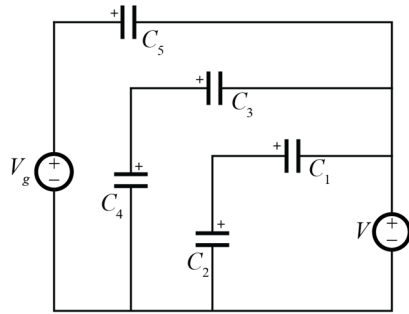


Switching Losses in SC Converters

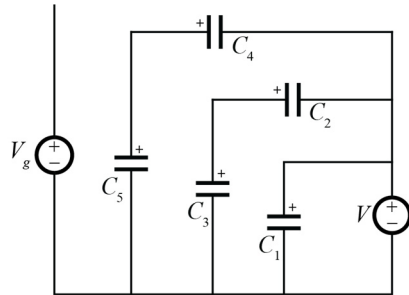
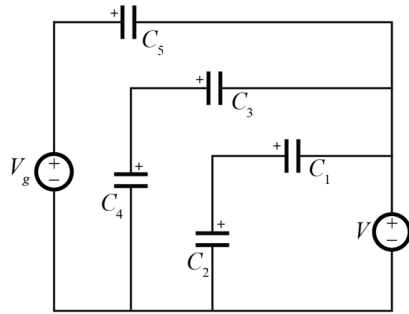
Charge Sharing Loss and Soft Charging



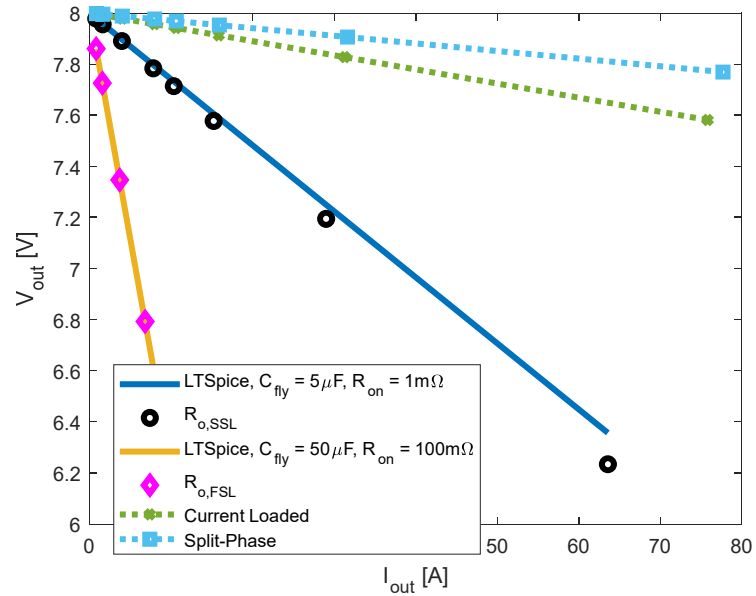
Hybrid Dickson Converter



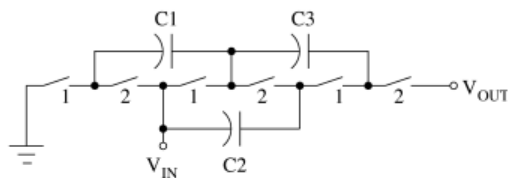
Split-Phase Control



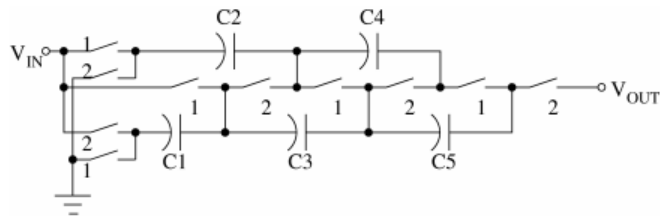
LTSpice Simulation



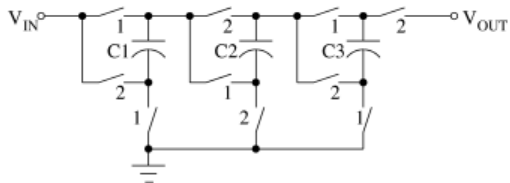
Complete Soft Charging



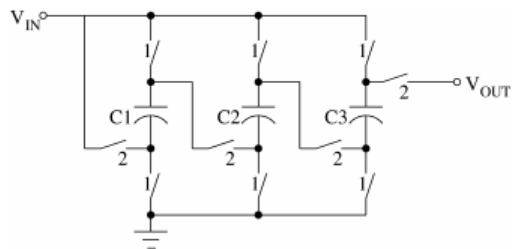
a) Ladder



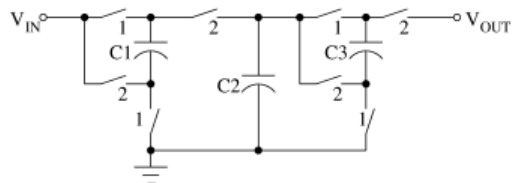
b) Dickson Charge Pump



c) Fibonacci



d) Series-Parallel



e) Doubler