Instruction: files decription

* extrapolating\_Ubat: extrapolating towards zero current to determine U\_bat
* figure\_making: the file which contains the making of figures: static discharge, pulses input validations (20%,50%,80% SoC, and a longer relaxation periods input), fitting of Un and Up
* numerical\_illstration: compare model output when giving a perturbation to nominal values of parameters
* Parameters estimation\_alpha\_sep: parameter estimation using LM method. In the file, main\_estimate.m is the main file and predict\_erro.m is the minimizing function.
* sensitivity: using QR factorization to do parameter ranking
* simulation\_DFN: simulate the DFN model.

Output: Cs (solid concentration) Ce(electrolyte concentration) Phie (electrolyte potential) Phis (solid potential) Cse (surface concentration in solid phase) cell\_voltage (terminal voltage)