Supplementary File

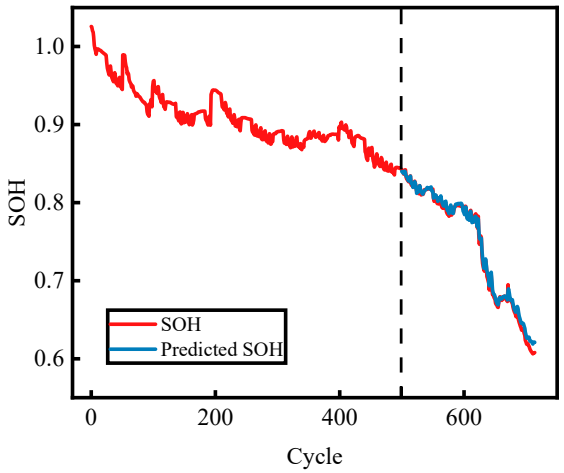
Battery SOH Estimation Based on Dual-View Voltage Signal Features and Enhanced LSTM

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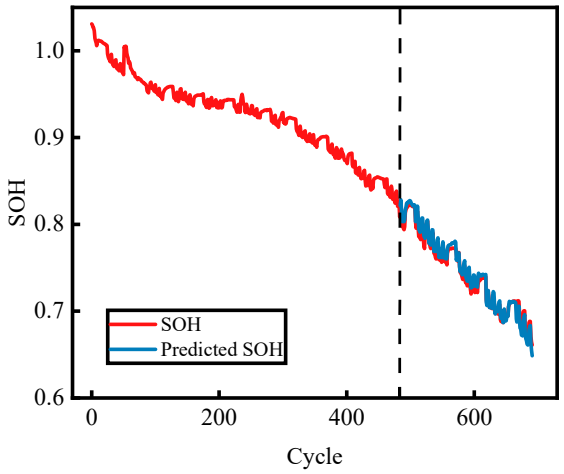
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Validation on the CALCE Dataset

To verify the model's general applicability, we evaluated it using the CALCE dataset from the University of Maryland. This dataset comprises 1.1 Ah LiCoO2 cells. Charging was performed at a 1 C rate until the cell voltage reached 4.2 V, after which constant-voltage charging continued until the current fell below 0.05 A. Discharge was then carried out at a constant 1 C rate until the voltage dropped to 2.7 V. We analyzed cells CS2_35 and CS2_36; their predicted SOH trajectories are shown in Figure S1, and the exact numerical predictions are listed in Table S1.



(a)



(b)

Figure S1. Prediction Results of the Proposed Model. (a) CS2_35 (b) CS2_36.

Table S1. Detailed Prediction Results

Battery	MAE(%)	RMSE(%)
CS2_35	0.37	0.48
CS2_36	0.52	0.63

As shown in Figure S1 and Table S1, the predicted data agree well with the experimental values. Validation on both the CALCE and NASA datasets demonstrates that our method possesses strong generality.