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Analysis and measurement of the electrolyte imbalance in a vanadium redox flow battery

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Highlights

- The new method to measure an electrolyte imbalance in real time is proposed.
- A modified OCV is used with the correlation of the Vstate and OCV in each side.
- At different Vstate, the predicted OCV agrees reasonably with the experimental data.
- Effect of the state of charge and electrolyte imbalance on the energy capacity of a cell is discussed.

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