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Simulation of Lead-Acid Battery Using Model Order Reduction

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Research Highlights

- An ROM is developed for lead-acid cell using POD method.
- The procedure of obtaining the ROM is presented in a systematic manner.
- One-dimensional lead-acid cell is simulated using ROM based on POD.
- Two different methodologies are presented to obtain the Proper orthogonal modes.
- Accurate numerical results along with a speed-up factor of 10 are obtained.

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