Summary of this week

- At the end of every week, we quickly summarize progress made during the week and preview upcoming topics
- This week, we introduced the primary functions of a BMS
  - We looked at when a BMS is needed, and some example applications
  - We learned some important definitions for talking about cells and batteries and how to design a battery pack to meet given requirements
  - We saw how a standard electrochemical battery cell works, including how it produces a voltage and the dis/charge processes
  - We learned some overall concepts of how cells are designed
  - Finally, we studied some example electrochemical cells

Where from here?

- The focus of this specialization is on lithium-ion cells, which work a little differently from standard electrochemical cells
- Next week, we turn our attention to learning about Li-ion cells
  - Why would we be interested in them? What are advantages?
  - How does their operational mechanism differ from standard electrochemical cells?
  - What materials are used for current collectors, electrodes, separator, electrolyte, in different types of Li-ion cells?
  - Finally, we consider whether the global lithium supply is sufficient to meet possible future demand

Credits

Credits for photos in this lesson

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