- Basic concept of battery
- Battery Materials- NCM and LFP
- Battery types: Cylindrical, Prismatic, and Pouch
- Battery Design and in battery pack: and the PU support
  - a. Cylindrical
    - i. Can be compacted in battery pack
    - ii. Minimum swelling
    - iii. Protection: Potting, TCA
  - b. Pouch
    - i. High swelling
    - ii. Need to keep it cooling: put cooling plates with FPC around it
  - c. Prismatic:
    - i. Strong and heavy
    - ii. Have one venting side
- EV battery market
- Battery assembly materials
- Thermal interface materials (TIMs)
- Interfacial effects in thermal conductivity
- Key performance requirements for TIMs for EV
- Testing of thermal interface materials
- Design challenges, considerations, and trends