Pingfeng Wang - University of Illinois

- Reliability-based design optimization (RBDO)
- Physics of failure analysis, diagnosis & prognosis
- Failure mode, effect, and criticality analysis (FMECA)

http://rasalab.ise.illinois.edu

Reliability-based Design Theory

Battery Cell with Si Anode

Failure Modes
- a. Stress Concentration
- b. Fracture & Delamination
- c. SEI Growth

Reliability Performance

Physics of Failure Simulation and Experiment

Power Management

State of Health

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