

SCCER Summer School - Energy Storage in Batteries: Materials, Systems, and Manufacturing

Energy Storage in Batteries: Materials, Systems, and Manufacturing
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Reliability and Safety

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Reliability and safety are basic requirements for cells and battery systems, in addition to performance, life cycle costs and ecological considerations. The cost-effective design and operation of a battery is intimately related to the reliability and safety of its components. In this module the basic failure mechanism of cells and their effects are explained and illustrated. Safety features from cell to battery level, the influence of environmental and operational conditions, safety testing and analysis methods are presented in order to support the design of reliable and safe batteries.

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