

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

Energy Storage in Batteries: Materials, Systems, and Manufacturing
SCCER Summer School 11-15 July 2016 Möschberg, Switzerland



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Basics of Battery Electrochemistry

Monday, 11 July 2016 13:30 (1h 45m)

The very first module of the course will introduce the definitions and expressions relevant to the technical electrochemistry. Then, the basics of battery electro-chemistry will be discussed including both the thermo-dynamics (electrode potential, cell voltage) and the kinetics (ohmic, charge transfer, and concentration overpotentials). Finally, the application of this basic knowledge to porous electrodes will be shown.

Presenter: Prof. NOVAK, Petr (Paul Scherrer Institut)