Lithium-ion Battery Pack Design Handbook

What is the Handbook of lithium-ion battery pack design?
The Handbook of Lithium-Ion Battery Pack Design: Chemistry,Components,Types and Terminologyoffers to the reader a clear and concise explanation of how Li-ion batteries are designed from the perspective of a manager,sales person,product manager or entry level engineer who is not already an expert in Li-ion battery design.

How do you design a lithium-ion battery pack?
The process of designing and engineering a lithium-ion battery pack may differ from one company to another, but the overall steps that are required remain constant. The engineering process begins by developing the feasibility concept based on either customer or market requirements.

What is the purpose of the Li-ion battery book?
The book is immensely useful to beginning and experienced engineer alike who are moving into the battery field. Li-ion batteries are one of the most unique systems in automobiles today in that they combine multiple engineering disciplines,yet most engineering programs focus on only a single engineering field.

What are the components of a lithium ion battery?
The fourth component of a lithium-ion battery is the enclosure,which is most often a can or pouch,in which the jellyroll is inserted. This may take the form of a metal can,a plastic housing,or a polymer type "pouch." Once this is done,the fifth element is added to the mix--an electrolyte.

What are the characterization and testing requirements for lithium ion batteries?
For the lithium-ion cells, it is important to test them to the ISO WD17546 standard. The rest of the characterization and testing requirements are very similar to all other lithium-ion batteries and will include electrical performance and characterization testing, abuse testing, and calendar and cycle life testing.

What components are included in a battery pack?
In the case of the battery pack,the hardware might include BMS controllers,electric motors,switches,and contactorsor even a partial or complete battery pack. But for rapid turnaround most HIL engineers will create simulation models for many of the components.

Handbook of Lithium-Ion Battery Pack Design by John T. Warner, 2015, Elsevier Science & Technology Books edition, in English. It looks like you"re offline. Donate ?. English (en) Cestina (cs) Deutsch (de) English (en) Español (es) ...

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