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Boron Hydrides, High Potential Hydrogen Storage Materials

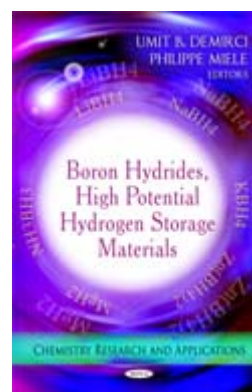
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Editors: Umit B. Demirci and Philippe Miele (Universite Claude Bernard Lyon, Villeurbanne, France)

Book Description:

Boron hydrides are hydrogen storage materials which are the object of intensive investigation because they pose tangible solution to the hydrogen storage issue. Today many boron hydrides are intensively investigated: lithium borohydride LiBH_4 , sodium borohydride NaBH_4 , potassium borohydride KBH_4 , new borohydrides like e.g. $\text{Ca}(\text{BH}_4)_2$, $\text{Zn}(\text{BH}_4)_2$ or $\text{Zr}(\text{BH}_4)_4$, combination of hydrides like e.g. LiBH_4 and LiNH_2 or LiBH_4 and MgH_2 , ammoniaborane NH_3BH_3 , alkali amidoboranes like e.g. LiNH_2BH_3 or NaNH_2BH_3 , and so on. This new book reviews research on boron hydrides and gives a general view of the perspectives of application.



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