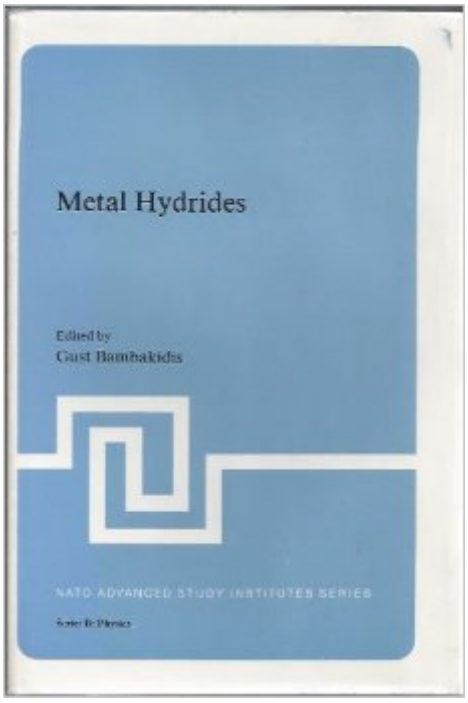
Metal Hydrides (NATO ASI Series B, Physics, Volume 76)



Synopsis

In the last five years, the study of metal hydrides has exÂ- panded enormously due to the potential technological importance of this class of materials in hydrogen based energy conversion schemes. The scope of this activity has been worldwide among the industrially advanced nations. There has been a consensus among researchers in both fundamental and applied areas that a more basic understanding of the properties of metal/hydrogen syster;,s is required in order to provide a rational basis for the selection of materials for specific applications. The current worldwide need for and interest in research in metal hydrides indicated the timeliness of an Advanced Study InstiÂ- tute to provide an in-depth view of the field for those active in its various aspects. The inclusion of speakers from non-NATO counÂ- tries provided the opportunity for cross-fertilization of ideas for future research. While the emphasis of the Institute was on basic properties, there was a conscious effort to stimulate interest in the application of metal hydrides to solar/hydrogen energy converÂ- sion schemes in land areas where solar energy has promise as a primary energy source. In addition to the lectures, several seminars were given which treated topics of special interest in greater detail.

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