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Fast Ion Transport in Solids

By B. Scrosati

Springer Verlag Gmbh Dez 2013, 2013. Taschenbuch. Book Condition: Neu. 234x156x21 mm. This item is printed on demand - Print on Demand Titel. Neuware - Twenty years ago, the town of Belgirate, Italy, played host to the very first international meeting on solid state ionics (published under the title of `Fast Ion Transport in Solids'). This anniversary Advanced Research Workshop invited leading researchers and the best students to present and evaluate the present achievements and to compare them with the goals set at the first meeting. That this was admirably accomplished can be seen by reading this book. The invited speakers covered almost all the most relevant aspects of solid states ionics, including presentations on materials and concepts for electrochemical devices, oxygen intercalation electrodes, multivalent cations in polymers and beta-aluminas, optical properties of transition metal and rare earth ions in beta aluminas, intercalation compounds and oxides, fuel cells and solid electrolytes, glasses and thin films, applications and future trends. The students were encouraged to discuss the areas in which theory is most needed, crystalline vs non-crystalline materials, the major contributions of solid state ionics to technology, the experimental status of solid state ionics, and what would they like to understand...



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