



Proton Conductors: Solids, Membranes and Gels - Materials and Devices (Chemistry of Solid State Materials)

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The present book covers different aspects of proton conduction: the first part describes chemical and physical parameters necessary for fast proton conduction and proposes a classification of different kinds of proton conductors. Comparison is made with other hydrogen containing materials (metals, graphites). The importance of partial water pressure, the role of defects and surface phenomena are discussed. The second part treats the chemistry, structures and electrical properties of typical materials from hydrogen bronzes to polymers via ice, hydroxides, acid sulphates, layer hydrates, clays, gels and porous or fractal media. The third part discusses the methods concerning the proton dynamics from local to macroscopic scale. The fourth part deals with conductivity mechanisms and the last one presents typical applications: electrochemical systems for production or energy storage and microionic devices.

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