



Polymer Electrolytes: Fundamentals and Applications (Woodhead Publishing Series in Electronic and Optical Materials)

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Polymer electrolytes are electrolytic materials that are widely used in batteries, fuel cells and other applications such as supercapacitors, photoelectrochemical and electrochromic devices. Polymer electrolytes: Fundamentals and applications provides an important review of this class of ionic conductors, their properties and applications.

Part one reviews the various types of polymer electrolyte compounds, with chapters on ceramic polymer electrolytes, natural polymer-based polymer electrolytes, composite polymer electrolytes, lithium-doped hybrid polymer electrolytes, hybrid inorganic-organic polymer electrolytes. There are also chapters on ways of characterising and modelling polymer electrolytes. Part two discusses applications such as solar cells, supercapacitors, electrochromic and electrochemical devices, fuel cells and batteries.

With its distinguished editors and international team of contributors, Polymer electrolytes: Fundamentals and applications is a standard reference for all those researching and using polymer electrolytes in such areas as battery and fuel cell technology for automotive and other applications.

- Provides an important review of this class of ionic conductors, their properties and applications in practical devices
- Explores categories of polymer electrolytes and conductivity measurements
- Features a comprehensive analysis of current developments in polymer electrolytes and highlights a new type of polymer electrolyte

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