



Development & Characterization of Ion Conducting Polymer Electrolytes

By Kambila, Vijaya K.

Book Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Processing, Properties and Applications as Electrochemical Cells and IEM Fuel Cells | The Research and Development of Solid Conducting Polymer Electrolytes has become has always an identifiable. The Solid Conducting Polymer Electrolytes are of technological interest due to their possible application as solid Electrolytes in different devices such as energy conversion units (Batteries, Fuel Cells), smart windows, photo-electrochemical solar cells. This book contains the development and characterization of Poly Ethylene Oxide (PEO) complexed with different bicarbonate salts and their characterization by several spectroscopic techniques IR, XRD, DSC, SEM and Composition & Temperature Dependence Conductivity and transport number measurements which were employed to characterize these polymer electrolyte systems. First the speed of the developments in Solid Ion Conducting Polymer Electrolytes for Batteries, sensors and low temperature fuel cells makes it necessary to record another "snapshot of this research field". Second, this detailed book/monograph narrows the field into study of Ion Conducting Materials, Characterization, processing and properties relevant to device applications that require bulk, and mainly Ionic Materials for device applications. | Format: Paperback | Language/Sprache: english | 440 pp.



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