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## Modern Aspects of Electrochemistry 45

By -

Springer-Verlag New York Inc., United States, 2014. Paperback. Book Condition: New. 2009 ed.. 203 x 127 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This volume contains 7ve chapters. The topics covered are the cathodic reduction of nitrate, for which the key issues are product selectivity and current efficiency; a discussion of ionic liquids known as molten or fused salts in key industrial processes; the properties of nanowires made of metals and semiconductors by means of electrodeposition into porous templates and template synthesis; and an overview of a range of alloys used in electroplating, and trends in ammonium electrolysis. Also, included is a review of the applications of synchrotron x-ray scattering to the electrochemical interphase. Chapter 1 by Celia Milhano and Derek Pletcher reviews the cathodic reduction of nitrate as a truly fascinating reaction since processes for nitrate removal from drinking water and effluents and reducing nitrates in nuclear waste is an essential step in nuclear waste disposal. The authors also review electrochemical membrane technology not involving the cathodic reduction of nitrate. In Chapter 2, the authors discuss substances called ionic liquids, and the fact that this is really a new...



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