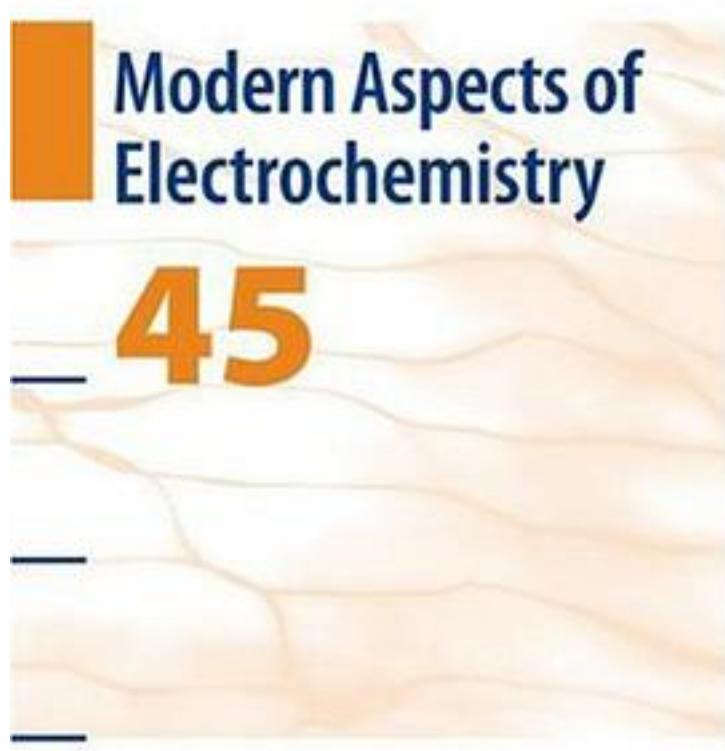


Modern Aspects of Electrochemistry 45

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This volume contains five chapters, covering topics including the cathodic reduction of nitrate, including discussion of product selectivity, current efficiency, and the thermodynamics and kinetics for the reactions studied, with a review of electrochemical membrane technology not involving the cathodic reduction of nitrate; a discussion of ionic liquids known as molten or fused salts in key industrial processes; the properties of nanowires composed of metals and semiconductors, with a focus on the step edge decoration method; an overview of a range of alloys used in electropolating; trends in ammonium electrolysis as a renewable source of fuel; and a review of the applications of synchroton x-ray scattering in respect to the electrochemical interphase.

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