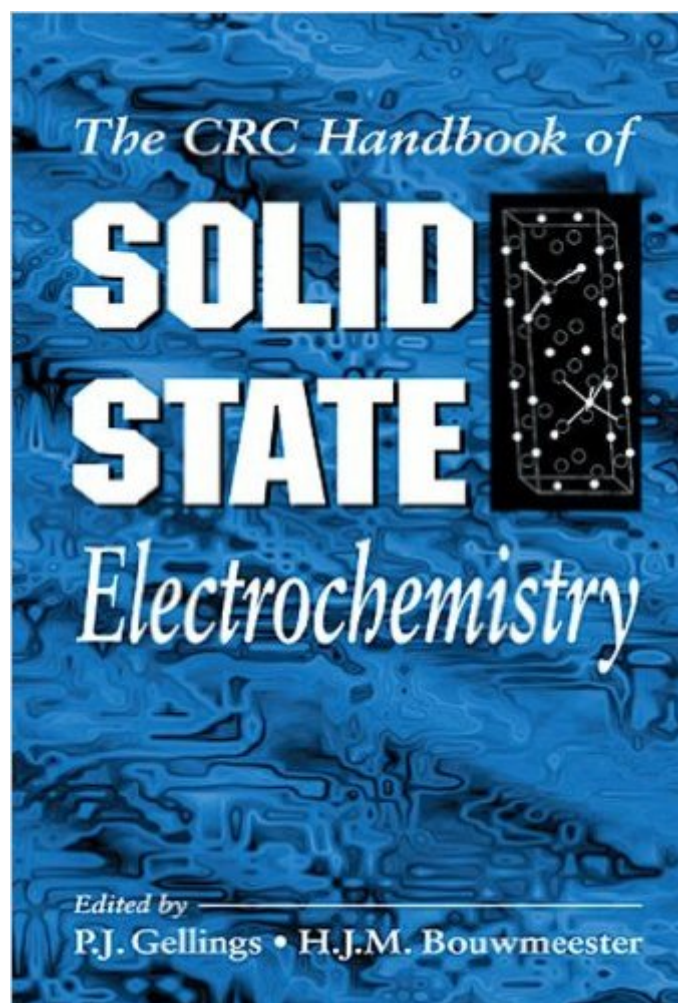


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Handbook Of Solid State Electrochemistry



Synopsis

The Handbook of Solid State Electrochemistry is a one-stop resource treating the two main areas of solid state electrochemistry: electrochemical properties of solids such as oxides, halides, and cation conductors; and electrochemical kinetics and mechanisms of reactions occurring on solid electrolytes, including gas-phase electrocatalysis. The fundamentals are presented, including structural and defect chemistry, diffusion and transport in solids, conductivity and electrochemical reaction, and adsorption and reactions on solid surfaces. The Handbook also covers experimental methods and computer-aided interpretation of experimental results used in the field. The Handbook of Solid State Electrochemistry addresses applications of solid state electrochemistry in a number of fields, including: solid oxide fuel cells, batteries, sensors and actuators, semi-permeable membranes, corrosion processes, electrocatalysis, electrochromic devices. For materials scientists, engineers, and researchers from academia and industry, the Handbook provides guidance through the rapidly growing field of solid state electrochemistry.

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