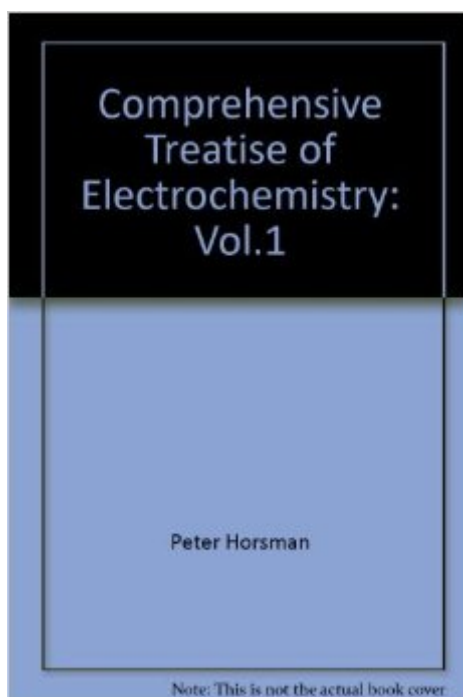


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Comprehensive Treatise Of Electrochemistry, Vol. 1: The Double Layer



Synopsis

From the back cover: "Specially designed for electrochemists, surface scientists, and solid-state physicists, this book is a lucid presentation of the theory and practice of nonmetal electrochemistry. Emphasis is placed throughout on energy level modules, in particular the model of Marcus and Gerischer. First the fluctuating energy level model is presented as the key to understanding electrode reactions on nonmetals. The power of the model, when applied to electrochemical observations, to determine energy levels is then illustrated. Subsequent topics include the conduction and valence bands of nonmetals and their relation to the energy levels of oxidizing or reducing agents in solution; the ability of simple models to describe successfully electrode reactions at an inert electrode; and the application of the model to more complex systems. One chapter is devoted to the behavior of the nonmetallic layers (oxides) that develop on metal electrodes. The final chapter takes a look at technological applications, such as solar energy conversion."

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