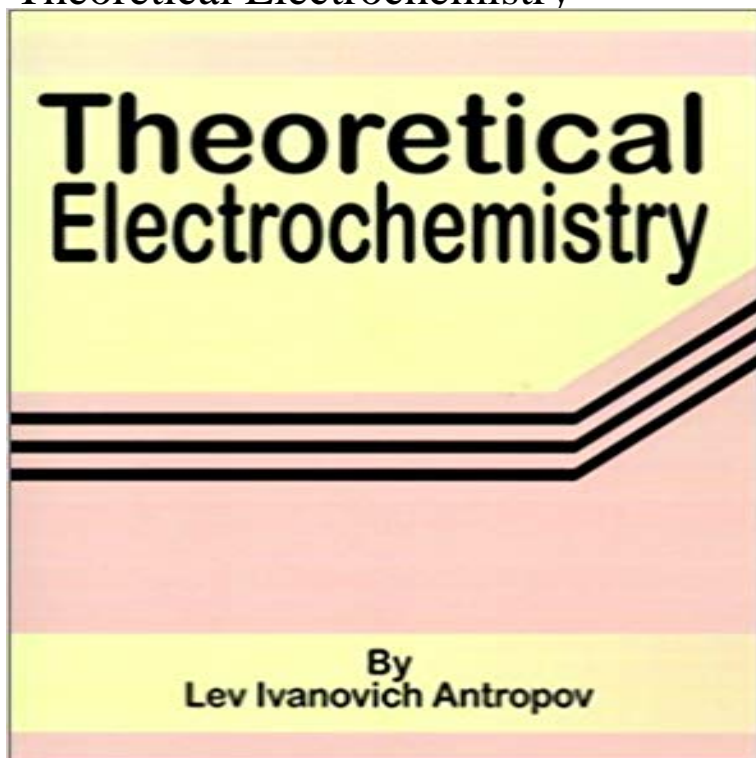


Theoretical Electrochemistry



This textbook is designed primarily for students specializing in electrochemistry, but will be found useful by post-graduates, research workers, and engineers concerned with this field in industry. It is based on the theory of electrochemical systems originally developed by L. V. Piszhevsky and considers, stage by stage, the laws governing electrochemical processes and their peculiarities distinguishing these processes from ordinary chemical reactions. It discusses the equilibrium of electrolytes and the non-equilibrium phenomena occurring in them. Consideration is given to electrode equilibrium, including the structure of the double layer between the electrode and the electrolyte and perturbations caused by the passage of a current across the electrode-electrolyte interface or by deviations of the electrode potential from its equilibrium value, finally, the kinetics of the most important electrode processes is explained. The course covers the basic elements of modern theoretical electrochemistry, presenting them in logical sequence - from equilibrium to kinetics. The material within each part and chapter is arranged so as to reflect the historical development of the field in question. The book contains much factual material in the form of tables and figures. Professor Lev Ivanovich Antropov, at the time of the original publication, was the Head of the Department of Electrochemistry at the Kiev Polytechnic Institute. He was a member of the Mendeleev Chemical Society of the USSR, the Conite National des Dejives Tensio-Actifs de IURSS (C.I.D.) and the Editorial Boards of Electrochemistry and Corrosion Protection (USSR) and Corrosion Science (G.B.) Prof. Antropov published extensively in Indian, American, and British journals as well as in the USSR and had lectured in India, Japan, Poland, West Germany and the USA. He is the

author of some two hundred works mainly in the field of the theory of electrochemical reduction of organic substances, of corrosion inhibition by organic compounds and electrode kinetics. He had formulated a new correlative or scale of potentials (also known as the reduced scale of potentials) Prof. Antropov was Vice President of the Third International Congress on Corrosion in 1966.

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