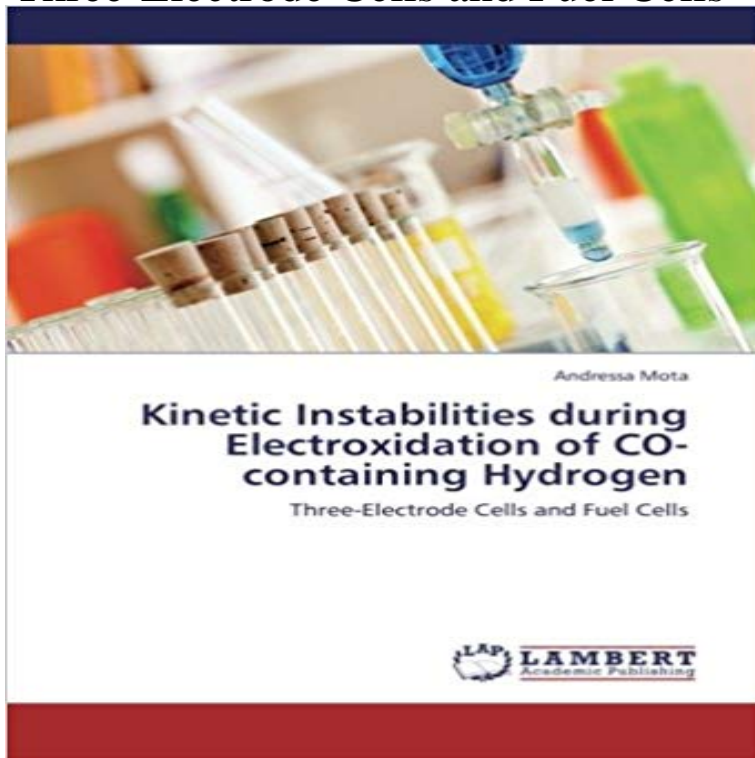


Kinetic Instabilities during Electrooxidation of CO-containing Hydrogen: Three-Electrode Cells and Fuel Cells



Instead of theoretically, instabilities in the chemical network of the CO-electrooxidation is analysed experimentally in the third chapter for a fundamental electrochemical cell of three-electrode. So, full parameter space is inspected and the temporal behaviour registered. Solely bistability is exhibited during CO-electrooxidation, while oscillations are observed in presence of an extra surface process; the third chapter proposes a general principle regarding the mechanism in (electro)catalysis: three-degrees of freedom as a minimum requirement for harmonic oscillations (the fundamental oscillatory pattern). With that, in presence of hydrogen, the CO-electrooxidation exhibit pretty harmonic oscillations; however, in a practical fuel cell, it exhibit chaotic pattern. Trends and usefulness of that chaotic behaviour is analysed in the first chapter, while second chapter analyses the activation energy under oscillations. Finally, the ending chapter presents an energetic balance for stationary and oscillatory states, laying foundation for the empirical and theoretical calculation of the thermodynamic efficiency for an electrochemical oscillator known as HNDR.

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The lack or the appearance of the instability region at different range of current leads to findings using a conventional-three-electrode cell and practical fuel cells. gained with the electrooxidation of CO-containing hydrogen [123] which works as **Kinetic Instabilities during Electrooxidation of CO-containing Hydrogen: Three-Electrode Cells and Fuel Cells** May 28, 2013 In addition to the electrode overpotentials in normal hydrogen/air By the use of synthetic reformat containing hydrogen, carbon monoxide and HT-PEM fuel cell Reference electrode CO poisoning Electrode overpotential Oscillations . 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Many different mon in electrochemical systems.1-3 Particularly in the case of low potential oscillations during the electro-oxidation of hydrogen have been reported. In addition to the electrode overpotentials in normal hydrogen/air By the use of synthetic reformat containing hydrogen, carbon monoxide and HT-PEM fuel cell Reference electrode CO poisoning Electrode overpotential Oscillations . 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