



Square-Wave Voltammetry: Theory and Application (Monographs in Electrochemistry)

By Valentin Mirceski, Sebojka Komorsky-Lovric, Milivoj Lovric

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In a real tour-de-force of scientific publishing, three distinguished experts here systematically deliver both the underlying theory and the practical guidance needed to effectively apply square-wave voltammetry techniques. Square-wave voltammetry is a technique used in analytical applications and fundamental studies of electrode mechanisms. In order to take full advantage of this technique, a solid understanding of signal generation, thermodynamics, and kinetics is essential. Not only does this book cover all the necessary background and basics, but it also offers an appendix on mathematical modeling plus a chapter on electrode mechanisms that briefly reviews the numerical formulae needed to simulate experiments using popular software tools.

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Editorial Review

Review

From the reviews:

"This book provides a wide collection of data for the description of diverse tendencies that characterize several electrochemical reactions analyzed by SWV. ... In summary, the book is highly recommended for researchers and research students who are interested in working with SWV. The authors are some of the foremost experts on the computation and experimental studies about this technique ... the authors provide an excellent introduction for anybody interested in the simulation of voltammetric curves." (Fernando Garay, Journal of Solid State Electrochemistry, Vol. 13, 2009)

From the Back Cover

Square-wave voltammetry is a technique readily available to every researcher, scientist, engineer and practitioner applying modern electrochemical measurement systems. It is of beneficial use in analytical applications and in fundamental studies of electrode mechanisms. But the optimised exploitation of this technique is only possible for those with a detailed knowledge of signal generation and of the thermodynamics and kinetics involved. This volume, written by three distinguished experts, systematically delivers the complete and in-depth information that enables both researchers and users of square-wave voltammetry to apply this technique effectively. Square-Wave Voltammetry also offers an appendix on mathematical modeling and a chapter on the most important electrode mechanisms which briefly reviews the underlying theory and numerical formulae intrinsic for simulating experiments with popular software tools , e.g. Mathcad (R).

Users Review

From reader reviews:

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