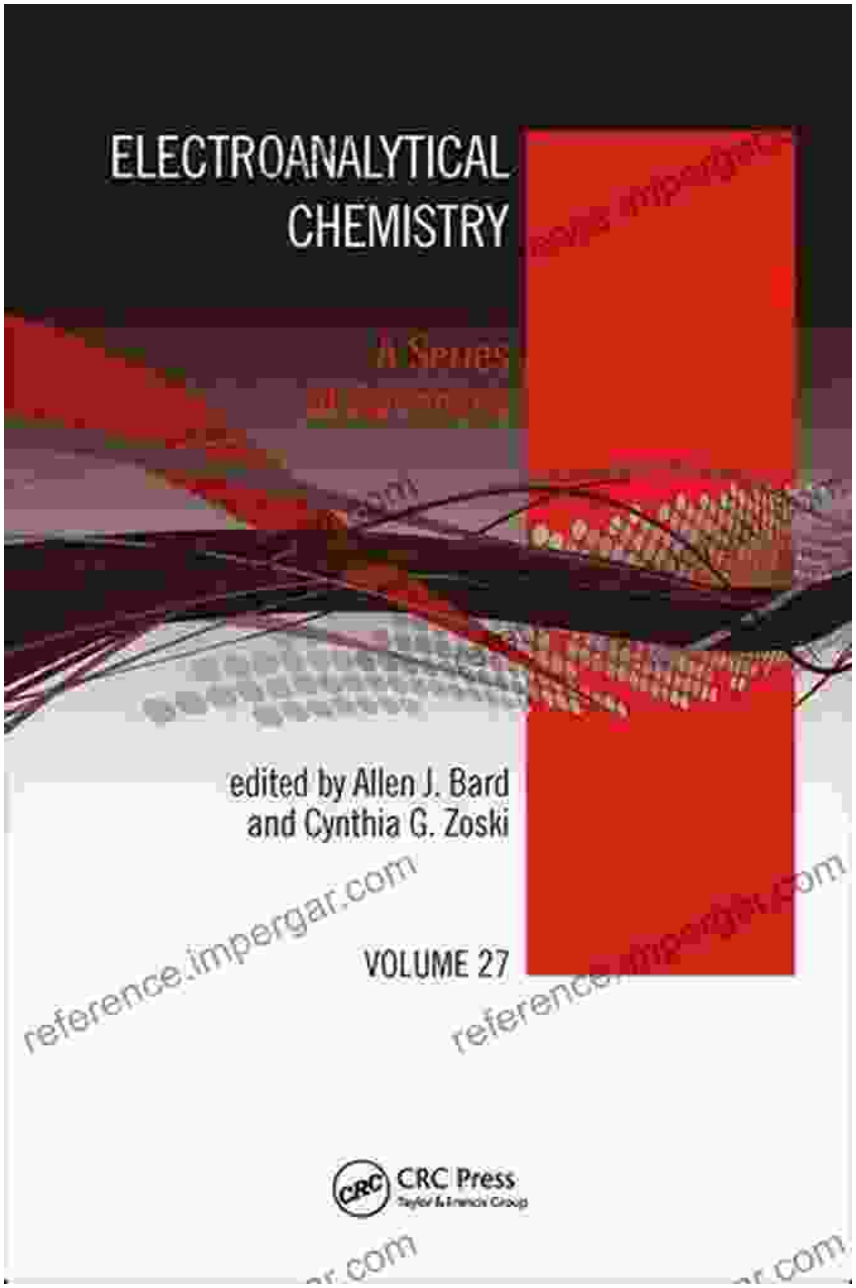
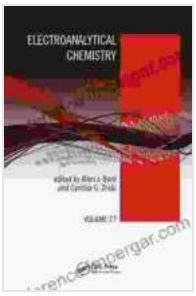
Electroanalytical Chemistry: A Series of Advances, Volume 27

Edited by Allen J. Bard and Larry R. Faulkner



Electroanalytical Chemistry: A Series of Advances, Volume 27 by Ernö Pretsch



4.7 out of 5

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Hardcover	: 600 pages
Item Weight	: 1.74 pounds

Electroanalytical Chemistry: A Series of Advances, Volume 27 provides information relating to the fundamental aspects of electroanalytical chemistry. Specifically, the science and technology of the interface between analytical chemistry and electricity.

This volume is divided into six chapters and begins with a discussion on the fundamentals of mass transport in electroanalytical chemistry. These fundamentals include the steady-state diffusion equation, time-dependent diffusion equation, convection, and hydrodynamic voltammetry. The next two chapters cover the fundamentals of potentiometry and voltammetry and their applications in diverse areas, including clinical chemistry, environmental chemistry, and electroorganic synthesis. These chapters also provide information on the application of potentiometry and voltammetry in the study of reaction mechanisms.

The remaining chapters focus on advances in various aspects of electroanalytical chemistry, including:

- the use of microelectrodes and ultramicroelectrodes in electroanalytical chemistry

- the development of new methods for the detection and quantification of trace levels of metal ions
- the use of electroanalytical methods in the study of biological systems
- the development of new electrochemical sensors and biosensors

This volume is a valuable resource for researchers and practitioners in the field of electroanalytical chemistry.

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Reviews

"This book is a valuable resource for researchers and practitioners in the field of electroanalytical chemistry." - Journal of the American Chemical Society

"This book provides a comprehensive overview of the latest advances in electroanalytical chemistry." - Analytical Chemistry

"This book is a must-have for anyone interested in the field of electroanalytical chemistry." - Electrochemistry Communications

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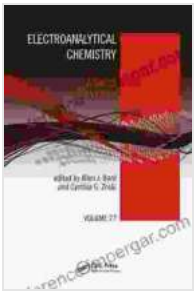

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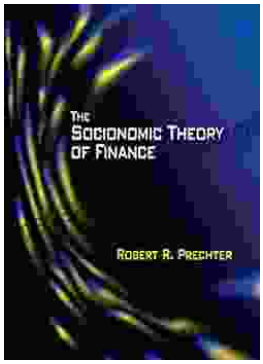

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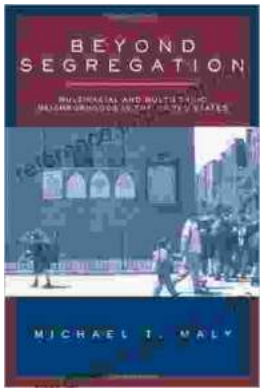

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