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This material has also been presented to undergraduate and graduate students at Queen's University in Canada, at Deakin University in Australia, and at the University of Southampton in England. The authors express their gratitude to the students who have served as guinea-pigs, and who have spared the reader from many errors and obscurities that marred earlier versions. Doubtless other flaws remain, for which we are wholly responsible; please let us know when you discover any of these.

Because it is not targeted toward any particular audience, we hope that this book may be of use to those from any background who have a wish or need to learn about the fundamentals of electrochemical science. Electrochemistry is an interstitial discipline, drawing support from its firm foundations in chemistry and physics, while serving the diverse needs of applications in many fields, including materials science, chemical analysis, energy conditioning, physiology, synthetic chemistry, solid-state physics, metals processing, and several varieties of engineering and technology. We devote little space to these applications, preferring to concentrate on the fundamentals of the subject.

Traditionally, electrochemistry texts have differed in emphasis according to their country of origin. Those from Europe treat electrochemistry as a branch of physical chemistry, nurtured by thermodynamics. In the United States, electrochemistry is mostly taught in programs of analytical chemistry, and American textbooks reflect that bias. As befits its Canadian origin, this book adopts a mid-Atlantic perspective, treating electrochemical science as a discipline in its own right, not as a specialization of any other branch of chemistry. Electrochemistry is a quantitative science and you