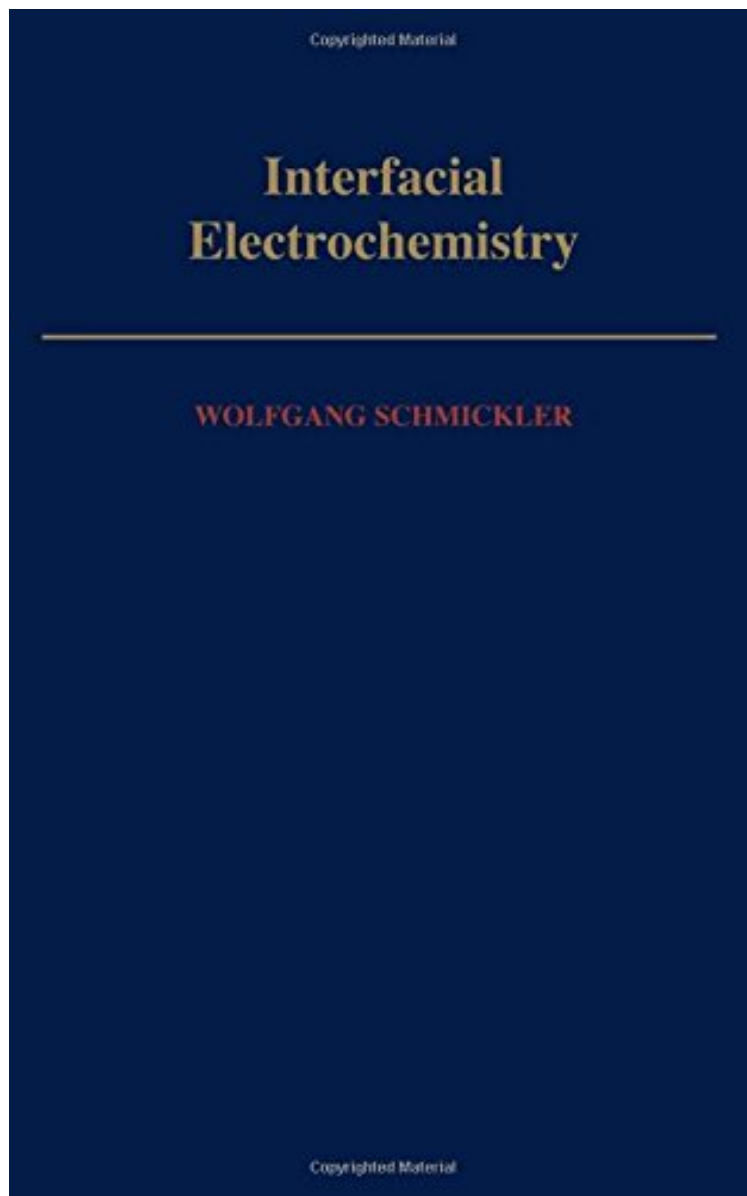


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Interfacial Electrochemistry

Wolfgang Schmickler

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Wolfgang Schmickler : Interfacial Electrochemistry before purchasing it in order to gauge whether or not it would be worth my time, and all praised Interfacial Electrochemistry:

0 of 0 people found the following review helpful. Book is great but beware of the kindle version By carlos hangarter Interfacial electrochemistry is a must have for electrochemists and is a great introductory book for those interested in the fields of electrocatalysis, electrodeposition or electrochemistry. Although not extensively detailed it is

broad in coverage and concise and is great as an undergraduate textbook and if supplemented properly, can form the backbone for a graduate course. Anyone doing research in the field of electrochemistry should read this book. The only reason I gave it 4 stars instead of 5 is because some of the equations are not legible in the kindle version. I have the basic kindle so this may not be a problem with all kindle products.

Electrochemistry is the study of a special class of interfaces--those between an ionic and an electronic conductor--that can conduct current. This makes it especially important to research and for industrial applications such as semiconductors. This book examines different topics within interfacial electrochemistry, including the theory of structures and processes at metal- solution and semiconductor-solution interfaces, the principles of classical and modern experimental methods, and some of the applications of electrochemistry. Students and nonspecialists in materials science, surface science, and chemistry will find this a valuable source of information.

"This is a lovely book. Wolfgang Schmickler presents us with a readable, accurate survey of the fundamentals of electrochemistry with, as the title implies, focus on the specifically interfacial aspects. . . .I found it completely engaging and enjoyable. Brutal self-discipline on the part of the author has produced an elegantly terse and readable text. . . .it is now the single best book to read and own."--American Scientist
From the Back Cover
Electrochemistry is an old branch of physical chemistry. Due to the development of surface sensitive techniques, and a technological interest in fuel cells and batteries, it has recently undergone a rapid development. This textbook treats the field from a modern, atomistic point of view while integrating the older, macroscopic concepts. The increasing role of theory is reflected in the presentation of the basic ideas in a way that should appeal to experimentalists and theorists alike. Special care is taken to make the subject comprehensible to scientists from neighboring disciplines, especially from surface science. The book is suitable for an advanced course at the master or Ph.D. level, but should also be useful for practicing electrochemists, as well as to any scientist who wants to understand modern electrochemistry.
About the Author
Wolfgang Schmickler is at University of Ulm, Germany.