DESCRIPTION

Provides fundamentals needed to apply impedance spectroscopy to a broad range of applications with emphasis on obtaining physically meaningful insights from measurements.

- Emphasizes fundamentals applicable to a broad range of applications including corrosion, biomedical devices, semiconductors, batteries, fuel cells, coatings, analytical chemistry, electrocatalysis, materials, and sensors

- Provides illustrative examples throughout the text that show how the principles are applied to common impedance problems

- New Edition has improved pedagogy, with more than twice the number of examples

- New Edition has more in-depth treatment of background material needed to understand impedance spectroscopy, including electrochemistry, complex variables, and differential equations

- New Edition includes expanded treatment of the influence of mass transport and kinetics and reflects recent advances in understanding frequency dispersion and constant-phase elements
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