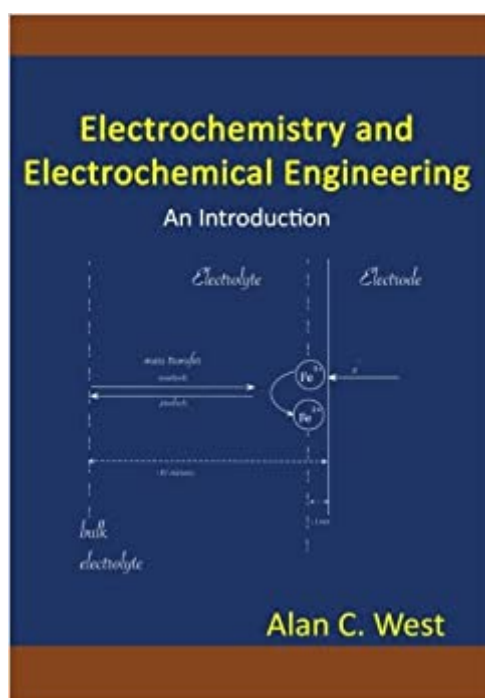


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Electrochemistry And Electrochemical Engineering. An Introduction



Synopsis

Electrochemical technologies are an integral part of modern life. Because electrochemical reactions are coupled to electrical current, their rates are relatively easy to measure, control, and to exploit for work. Thus, methods based on electrochemical phenomena are ideal for sensors, energy storage and conversion, and microfabrication processes. Furthermore, the use of electricity for oxidation and reduction may allow clean production of chemicals. Concepts used to scale electrochemical systems are both similar to and different from those used for chemical systems. This text provides an introduction to the fundamentals that may allow understanding of existing electrochemical products and may inspire ideas for yet-to-be-invented products.

Book Information

Paperback: 296 pages

Publisher: CreateSpace Independent Publishing Platform (July 17, 2012)

Language: English

ISBN-10: 1470076047

ISBN-13: 978-1470076047

Product Dimensions: 7 x 0.7 x 10 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #498,605 in Books (See Top 100 in Books) #17 in [Books > Science & Math > Chemistry > Electrochemistry](#) #1629 in [Books > Science & Math > Chemistry > General & Reference](#) #1766 in [Books > Textbooks > Science & Mathematics > Chemistry](#)

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