

The book was found

# Introduction To Electrochemical Science And Engineering



## Synopsis

Due to the increasing demand for power generation and the limited nature of fossil fuels, new initiatives for energy development based on electrochemical energy conversion systems are springing up around the world. Introduction to Electrochemical Science and Engineering describes the basic operational principles for a number of growing electrochemical engineering-related technologies, including fuel cells, electrolyzers, and flow batteries. Inspired by the author's more than ten years of experience teaching undergraduate electrochemistry-related courses at Penn State University, this essential text: Ensures a fundamental knowledge of the core concepts of electrochemical science and engineering, such as electrochemical cells, electrolytic conductivity, electrode potential, and current-potential relations related to a variety of electrochemical systems; Develops the initial skills needed to understand an electrochemical experiment and successfully evaluate experimental data without visiting a laboratory; Provides more than 360 conceptual and numerical problems distributed over nine quizzes and nine video-based assignments; Contains a number of illustrative case studies related to novel electrochemical energy conversion systems; Promotes an appreciation of the capabilities and applications of key electrochemical techniques. Solutions manual and electronic figure files available with qualifying course adoption. Introduction to Electrochemical Science and Engineering is an ideal textbook for undergraduate engineering and science students and those readers in need of introductory-level content. Furthermore, experienced readers will find this book useful for solidifying their electrochemical background.

## Book Information

File Size: 18481 KB

Print Length: 339 pages

Publisher: CRC Press; 1 edition (December 17, 2014)

Publication Date: December 17, 2014

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B00QFFY5J6

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #438,809 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #29

inÃ Â Books > Science & Math > Chemistry > Electrochemistry #34 inÃ Â Kindle Store > Kindle eBooks > Nonfiction > Science > Chemistry > Industrial & Technical #42 inÃ Â Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Petroleum

[Download to continue reading...](#)

Introduction to Electrochemical Science and Engineering Electrochemistry and Electrochemical Engineering. An Introduction Freezing Colloids: Observations, Principles, Control, and Use: Applications in Materials Science, Life Science, Earth Science, Food Science, and Engineering (Engineering Materials and Processes) Electrochemical Systems (Prentice-Hall International Series in the Physical and Chemical Engineering Sciences) Electrochemical Engineering Principles Electrochemical Science and Technology: Fundamentals and Applications Modern Batteries: An Introduction to Electrochemical Power Sources, 2nd Edition Fundamentals of Electrochemical Science Introduction to Coastal Engineering and Management (Advanced Series on Ocean Engineering) (Advanced Series on Ocean Engineering (Paperback)) Engineering Fundamentals: An Introduction to Engineering (Activate Learning with these NEW titles from Engineering!) Elements of Polymer Science & Engineering, Second Edition: An Introductory Text and Reference for Engineers and Chemists (The Elements of Polymer Science and Engineering) Introduction to Nuclear Engineering (Addison-Wesley series in nuclear science and engineering) The Elements of Polymer Science and Engineering, Third Edition (Elements of Polymer Science & Engineering) The Elements of Polymer Science and Engineering (Elements of Polymer Science & Engineering) Titanium in Medicine: Material Science, Surface Science, Engineering, Biological Responses and Medical Applications (Engineering Materials) Gravity Sanitary Sewer Design and Construction (ASCE Manuals and Reports on Engineering Practice No. 60) (Asce Manuals and Reports on Engineering ... Manual and Reports on Engineering Practice) Electrochemical Power Sources: Batteries, Fuel Cells, and Supercapacitors (The ECS Series of Texts and Monographs) Electrochemical Methods: Fundamentals and Applications Student Solutions Manual to accompany Electrochemical Methods: Fundamentals and Applicaitons, 2e Electrochemical Methods: Fundamentals and Applications, 2nd Edition

Contact Us

DMCA

Privacy

FAQ & Help