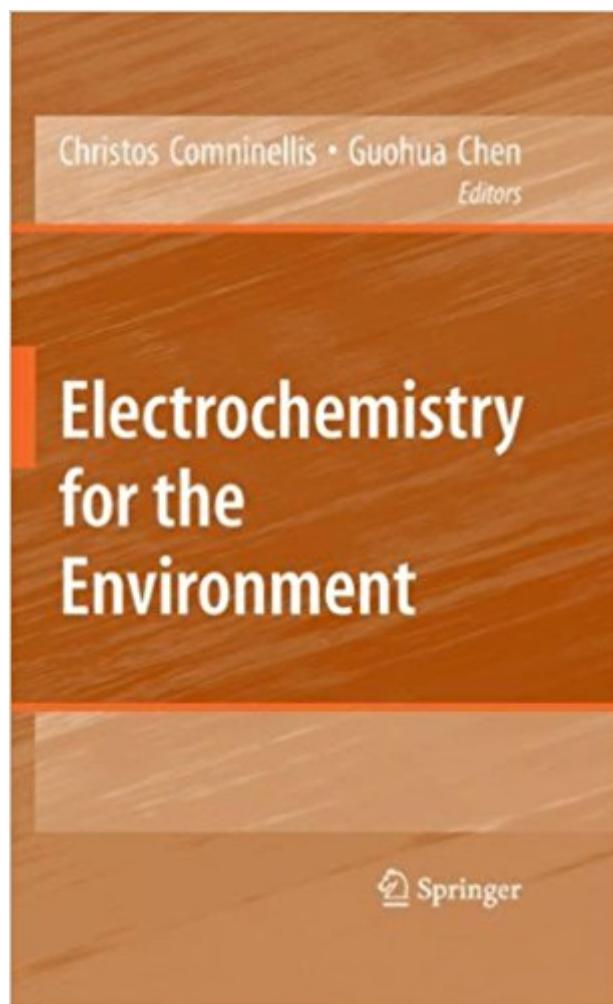


The book was found

Electrochemistry For The Environment



Synopsis

Wastewater treatment technology is undergoing a profound transformation due to the fundamental changes in regulations governing the discharge and disposal of hazardous pollutants. Established design procedures and criteria, which have served the industry well for decades, can no longer meet the ever-increasing demand. Toxicity reduction requirements dictate the development of new technologies for the treatment of these toxic pollutants in a safe and cost-effective manner. Foremost among these technologies are electrochemical processes. While electrochemical technologies have been known and utilized for the treatment of wastewater containing heavy metal cations, the application of these processes is only just a beginning to be developed for the oxidation of recalcitrant organic pollutants. In fact, only recently the electrochemical oxidation process has been recognized as an advanced oxidation process (AOP). This is due to the development of boron-doped diamond (BDD) anodes on which the oxidation of organic pollutants is mediated via the formation of active hydroxyl radicals.

Book Information

Hardcover: 563 pages

Publisher: Springer; 2010 edition (October 28, 2009)

Language: English

ISBN-10: 0387369228

ISBN-13: 978-0387369228

Product Dimensions: 6.1 x 1.2 x 9.2 inches

Shipping Weight: 2.1 pounds (View shipping rates and policies)

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

Best Sellers Rank: #2,966,025 in Books (See Top 100 in Books) #106 in Books > Science & Math > Chemistry > Physical & Theoretical > Electrochemistry #132 in Books > Science & Math > Chemistry > Electrochemistry #791 in Books > Science & Math > Nature & Ecology > Water Supply & Land Use

Customer Reviews

From the reviews: "A book focussing on electrochemical approaches to the protection of the environment is timely and to be welcomed. The nineteen chapters in this book are all written by authors with broad experience of their topics. All chapters are extensively referenced. I have no doubt that this book will be valuable to scientists and engineers presently working in the field or seeking to enter it." (Derek Pletcher, Journal

Wastewater treatment technology is undergoing a profound transformation due to far-reaching changes in regulations governing the discharge and disposal of hazardous pollutants. Electrochemistry for the Environment first lays down the fundamentals of environmental electrochemistry, introducing the basic techniques in selecting electrode materials and fabricating them, followed by the theoretical analysis of the electrochemical processes and the green electrochemical operation. Then it discusses the electrochemical technologies in water/wastewater treatment using BDD before moving on to an examination of the established wastewater treatment technologies such as electro-coagulation, -flootation, and-oxidation. Additionally, emerging technologies such as electrophotooxidation, electrodisinfection, and electrochemical technologies in sludge and soil treatment are analyzed. This book is an excellent reference for electrochemists, chemical engineers, environmental engineers, civil engineers, and also for those in industry evaluating and implementing new technologies.

very useful for many issues regardin electrochemistry, not only environmental ones

Nice product!

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

Electrochemistry for the Environment Wiley CPAexcel Exam Review April 2017 Study Guide: Business Environment and Concepts (Wiley Cpa Exam Review Business Environment & Concepts) Wiley CPAexcel Exam Review 2015 Study Guide (January): Business Environment and Concepts (Wiley Cpa Exam Review Business Environment & Concepts) Wiley CPAexcel Exam Review 2016 Study Guide January: Business Environment and Concepts (Wiley Cpa Exam Review Business Environment & Concepts) Wiley CPAexcel Exam Review 2015 Study Guide July: Business Environment and Concepts (Wiley Cpa Exam Review Business Environment & Concepts) Renewable Energy Sources - Wind, Solar and Hydro Energy Edition : Environment Books for Kids | Children's Environment Books Brooks/Cole Empowerment Series: Human Behavior in the Social Environment (SW 327 Human Behavior and the Social Environment) Modern Electrochemistry 2B: Electrodics in Chemistry, Engineering, Biology and Environmental Science Electrochemistry and Electrochemical Engineering. An Introduction Surface Electrochemistry: A Molecular Level Approach Electrochemistry Analytical Electrochemistry Interfacial Electrochemistry Electrochemistry: Principles, Methods, and Applications (Oxford Science Publications) Modern

Electrochemistry 1: Ionics, 2nd Edition Electrochemistry in Ionic Liquids: Volume 1: Fundamentals
Handbook of Solid State Electrochemistry Environmental Electrochemistry: Fundamentals and
Applications in Pollution Sensors and Abatement Physical Chemistry. An Advanced Treatise.
Volume IXA: Electrochemistry (v. 9A) Electrochemistry of Porous Materials

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)