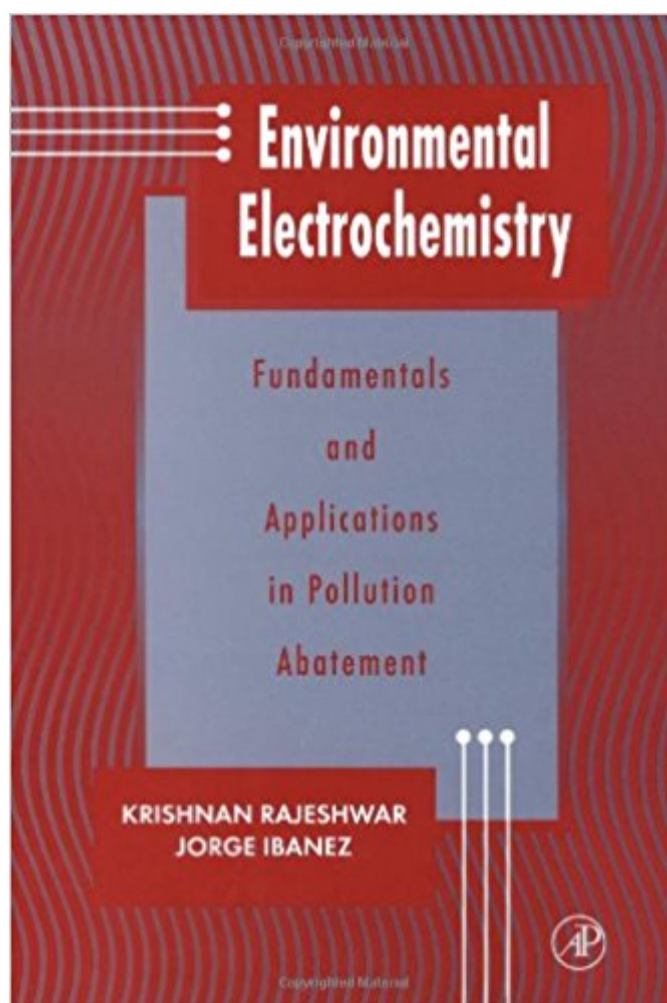


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Environmental Electrochemistry: Fundamentals And Applications In Pollution Sensors And Abatement



Synopsis

The first book of its kind, Environmental Electrochemistry considers the role that electrochemical science and engineering can play in environmental remediation, pollution targeting, and pollutant recycling. Electrochemical-based sensors and abatement technologies for the detection, quantification, and treatment of environmental pollutants are described. Each chapter includes an extensive listing of supplemental readings, with illustrations throughout the book to clarify principles and approaches detailed in the text. Key Features* The first book to review electro- and photoelectrochemical technologies for environmental remediation, pollution sensors and pollutant recycling* Applicable to a broad audience of environmental scientists and practicing electrochemists* Includes both laboratory concepts and practical applications

Book Information

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"This book is an excellent treatise on the fundamentals of modern electrochemistry and its applications to the solution of analytical and remedial environmental problems...readable by engineers, chemists, physicists, biologists, and other technical persons trained at the level of advanced undergraduate students and beyond..."--James F. Rusling, University of Connecticut, JOURNAL OF AMERICAN CHEMICAL SOCIETY"Explores the application of electrochemical and photochemical methods to pollution sensors and abatement. Intended for both an environmental specialist audience and for the practicing electrochemist, the focus is the positive role that electrochemical science and engineering can play in the detection, quantification, and treatment of

environmental pollutants."--REFERENCE & RESEARCH BOOK NEWS"...this book presents some of the most modern approaches to sensing and remediating pollutants, and does in comprehensively..."--Hal Reichard, CHEMICAL ENGINEERING PROGRESS, September 1999

This book explores the application of electrochemical and photochemical methods to pollution sensors and pollution abatement. Written for both nonspecialists and practitioners, Environmental Electrochemistry provides comprehensive coverage of theory and practice in this important and growing area of environmental science and technology. Extensive references enhance the value of this handbook for both academia and industry. The book is divided into eight chapters. The first two are introductory, covering relevant aspects of environmental science and technology, and electrochemistry and electrochemical processes. Chapter 3 provides a survey of the electrochemical database on common types of environmental pollutants. Chapters 4 through 7 delve into the details of environmental electrochemical analyses (Chapter 4), electrochemical methods for pollution abatement (Chapter 5), photo-assisted methods for pollution control (Chapter 6), and water/air disinfection approaches (Chapter 7). In Chapter 8 the commercial applications of many of these approaches are explored. The reference list is extensive in each case facilitating easy entry into the specialized literature. Illustrations are liberally employed to help in the understanding of a particular principle or approach.

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