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Autore	Rajeshwar Krishnan
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3.2. Electrochemistry of Organic Pollutants 3.3. Electrochemistry of Inorganic Pollutants; 3.4. Summary; References; Supplementary Reading; Chapter 4; 4.1. Introduction; 4.2. Flow Injection Analysis; 4.3. Potentiometric Sensors; 4.4. Amperometric-Coulometric and Voltammetric-Polarographic Detection in Flow Systems; 4.5. Amperometric Sensors for Environmental Pollutants: Some Examples; 4.6. Amperometric Gas Sensors; 4.7. Stripping Analyses: Specialized Aspects; 4.8. Direct Voltammetric (or Polarographic) Determination of Pollutants  
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5.9. Emerging Materials for Electrochemical Treatment of Pollutants  
Summary; References; Supplementary Reading; Chapter 6; 6.1. Introduction; 6.2. Photolysis of H<sub>2</sub>O<sub>2</sub> and O<sub>3</sub> and Generation of eaq; 6.3. Destruction of Organics as Mediated by OH and eaq; 6.4. Direct Photodissociation of the Pollutant; 6.5. Reaction Kinetics, Mechanisms and Examples of Application of the UV-H<sub>2</sub>O<sub>2</sub> System; 6.6. Reaction Kinetics, Mechanisms, and Examples of Application of the UV-O<sub>3</sub> System; 6.7. The UV-H<sub>2</sub>O<sub>2</sub>-O<sub>3</sub> Process; 6.8. UV-H<sub>2</sub>O<sub>2</sub> and UV-O<sub>3</sub> Systems: Practical Considerations; 6.9. Heterogeneous Photocatalysis  
6.10. Summary

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Sommario/riassunto

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 photoel

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