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| Sommario/riassunto | <p>ANALYTICAL ELECTROCHEMISTRY An accessible and robust text with comprehensive coverage of modern electroanalytical techniques and devices In the newly revised 4th edition of Analytical Electrochemistry, distinguished researcher Dr. Joseph Wang delivers an authoritative and comprehensive discussion of modern electroanalytical techniques and devices. With a strong focus on electroanalysis (as opposed to physical electrochemistry), the book offers readers a thorough grounding in the fundamentals of electrode reactions and the principles of electrochemical methods. It also demonstrates the solving of real-life analytical problems using the techniques discussed within. This latest edition contains extensive updates to the cited literature and its</p> |

descriptions of various electrochemical processes and techniques. Additional worked examples are included in the text and numerous quantitative questions and exercise problems are found at the end of each chapter. Readers will also find: A thorough introduction to the fundamental concepts of electroanalysis, including discussions of Faradaic processes, electrical double layers, and the electrocapillary effect. Comprehensive explorations of the study of electrode reactions, interfacial properties, and controlled potential techniques. Practical discussions of the practical considerations of electroanalysis, including electrochemical cells, solvents and supporting electrolytes, and instrumentation. Detailed treatments of potentiometry and electrochemical sensors, including ion selective electrodes, electrochemical biosensors and wearable devices. Perfect for graduate students studying electroanalytical chemistry, Analytical Electrochemistry will also benefit advanced undergraduate students taking courses in instrumental analysis, as well as academics and industrial professionals considering the use of electroanalysis in their labs.
