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Laboratory Methods in Dynamic Electroanalysis

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Laboratory Methods in Dynamic Electroanalysis is a good information to introduce analytical chemists to the world of electroanalysis using basic, low-cost methods. As electroanalytical devices have moved from conventional electrochemical cells (10-20 mL) to current cells (1-5 mL) with different materials such as for example paper, interesting strategies have emerged, including nanostructuration of electrodes, microfluidic cells and biosensing.Provides easy-to-implement experiments using low-cost, basic equipmentIncludes laboratory methodologies that make use of the latest trends in analytical chemistry in general and electroanalysis in particularGoes beyond the fundamentals covered in other books, focusing instead on practical applications of electroanalysis Techniques and strategies are presented in an easy-to-understand, didactic, practice-based way, and a bibliography provides visitors with additional resources of information. This publication provides detailed, up-to-date techniques for electroanalysis and covers the main tendencies in electrochemical cells and electrodes, including microfluidic electrodes, paper-based electrochemical products, microchip electrophoresis with integrated electrochemical detection, nanostructuration of electrodes and nanoparticles as labels in bioassays, and electrochemical biosensing.

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