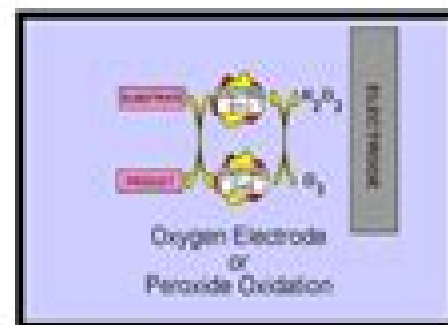


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Potentiometric, Voltammetric and  
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# Electroanalytic Chemistry

**Gary A. Mabbott**



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Contemporary Electroanalytical Chemistry A. Ivaska, A. Lewenstam, R. Sara, 2013-12-18 This volume is based on the presentations given at the ElectroFinnAnalysis conference held on June 6-9 1988 in Turku, Finland This event was the second in a series of electroanalytical conferences The first was held in Ireland 1986 and the next will be held in Spain 1990 The aim of these conferences is to bring together scientists who

use electroanalytical methods in their research This is also reflected in the disposition of this volume where instrumentation and applications from the different fields have their own chapters The editors are grateful to Mr Johan Nyman Mr Kent Westerbolm and Mr Markku Lehto for their technical assistance during the editorial work of this volume Ari Ivaska Andrzej Lewenstam Ralf Sara V CONTENTS Introduction Ari Ivaska ELECTROCHEMICAL INSTRUMENTATION AND METHODS New Instrumental Approaches to Fast Electro Chemistry at Ultramicroelectrodes 5 Larry R Faulkner Michael R Walshand Chuanjing Xu Photoelectroanalytical Chemistry Methods and Instrumentation 15 J ouko J Kaukare Experiences of an On Line Fourier Transform Faradaic Admittance Measurement FT FAM SystemBasedon Digital Signal Processors 21 Sten O Engblom Mikael Wasberg Johan Bobacka and Ari Iva ska Processor Controlled Fast Potentiostat 31 J Kaukare and J Lukka ri Smoothing of AC Polarographie Data by FFT Filtering 37 J oha n Bobacka a nd Ari Ivaska Reverse Pulse Voltammetry at Microelectrodes New Possibilities in Analytical Chemistry 47 Zbigniew Stojek Multiple Sensor Arrays Advantages and Implications 51 Dermot Diamond Simultaneous ESR Electrochemical Investigations at Solid Electrodes

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