DESCRIPTION

Martin Fleischmann was truly one of the ‘fathers’ of modern electrochemistry having made major contributions to diverse topics within electrochemical science and technology. These include the theory and practice of voltammetry and in situ spectroscopic techniques, instrumentation, electrochemical phase formation, corrosion, electrochemical engineering, electrosynthesis and cold fusion.

While intended to honour the memory of Martin Fleischmann, *Developments in Electrochemistry* is neither a biography nor a history of his contributions. Rather, the book is a series of critical reviews of topics in electrochemical science associated with Martin Fleischmann but remaining important today. The authors are all scientists with outstanding international reputations who have made their own contribution to their topic; most have also worked with Martin Fleischmann and benefitted from his guidance.

Each of the 19 chapters within this volume begin with an outline of Martin Fleischmann’s contribution to the topic, followed by examples of research, established applications and prospects for future developments.

The book is of interest to both students and experienced workers in universities and industry who are active in developing electrochemical science.
ABOUT THE AUTHOR

Derek Pletcher is Emeritus Professor at the University of Southampton. His research interests extend from fundamental electrochemistry, through electrochemical engineering to the industrial applications of electrolysis. He is the author of ~340 technical papers and ~30 reviews and has supervised the training of more than 90 postgraduate students. In 2010, he was awarded the prestigious Vittorio de Nora Medal by the US Electrochemical Society for his work related to the applications of electrochemistry. He is an elected Fellow of the Electrochemical Society (2005) and was awarded their Henry Linford Medal for Teaching Excellence in Electrochemistry (2006). He is a past Editor of the Journal of Applied Electrochemistry (1980-85) and presently serves on the Editorial Boards of Electrochimica Acta and Electrochemical Communications.

Zhong-Qun Tian heads the Surface-enhanced Raman Spectroscopy and Nano-electrochemistry research group at Xiamen University. He graduated from the Department of Chemistry at Xiamen University in 1982 with a BSc and received his Ph.D in 1987 under advisor, Martin Fleischmann, FRS. He is a Fellow of International Society of Electrochemistry (ISE), 2010-; Regional Representative (China) of International Society of Electrochemistry (ISE), 2007-2009; Fellow of Royal Society of Chemistry, UK, 2005-; Council Member of Chinese Society of Micro/Nano Technology, 2005-; Guest Professor of Chemistry, Chinese University of Hong Kong, China, 2006-; Guest Professor of Chemistry, Univ. of Science and Technology of China, China, 2001-; Visiting Professor of Ecole Normal Superior, Paris, France, 2008/9. He has over 310 papers, five chapters in encyclopaedias and books and has edited two special journal issues.

David Williams is Professor of Electrochemistry at the University of Auckland, NZ. His research covers electrochemistry and corrosion science. He is a graduate of the University of Auckland and developed his research career in electrochemistry and chemical sensors at the UK Atomic Energy Research Establishment, in the 1980s. He became Thomas Graham Professor of Chemistry at UCL in 1991. He joined the faculty of the Chemistry Dept at Auckland University in 2006. He is an Adjunct Professor at Dublin City University. He is a Visiting Professor at UCL, and University of Southampton, and Honorary Professor of the Royal Institution of Great Britain. He has published around 200 papers in international journals, and is the inventor of around 40 patents.

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