

Preface of Editor

There is no need to stress the importance of underpotential deposition (upd) for electrochemistry, surface science, and physics, both with respect to fundamental and applied studies, as upd belongs to the most widely studied and applied phenomena in electrochemical systems. Thus, it was very surprising that there did not exist a single monographic treatment of upd in the world literature. Overviews were only available in review papers, and special aspects of upd were covered in some books on metal deposition and electrocatalysis, to name but two. Rather short treatments of upd are available in textbooks, but a comprehensive description of the various experimental and theoretical aspects of upd and of its use for tuning electrochemical reactions was missing. I am very happy that four authors from Argentina, Ezequiel Pedro Marcos Leiva (Córdoba), Silvana Graciela García (Bahía Blanca), Oscar Alejandro Oviedo (Córdoba), and Luis Reinaudi (Córdoba), have accepted the request to write a monograph on underpotential deposition. The authors are internationally known for their contributions to the present state of understanding upd, and I am sure that this monograph will acquire the state of a classic book which every researcher will study and refer to when entering electrochemical deposition, electrocatalysis, or fundamental and applied surface science.

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Underpotential Deposition

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