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Nota di contenuto	Cover; Contents; Series Preface; Preface; List of Contributors; Chapter 1 The Role of Electrochemical Engineering in Our Energy Future; References; Chapter 2 The Path from Invention to Product for the Magnetic Thin Film Head; 2.1 Introduction; 2.2 The State of the Art in the 1960's; 2.2.1 The Processor; 2.2.2 Memory; 2.2.3 Data Storage; 2.2.4 Electroplating Technology; 2.3 Finding the Right Path to Production; 2.3.1 First Demonstrations of a Thin Film Head; 2.3.2 Interdisciplinary Design of a Functional Head; 2.3.3 Early Tie-in to Manufacturing; 2.3.4 The Integration of Many Inventions 2.4 Key Inventions for Thin Film Head Production 2.4.1 Device Structures; 2.4.2 The Plating Process; 2.4.2.1 The Paddle Cell; 2.4.2.2 The Electroplating Bath, Deposition Parameters, and Controls; 2.4.3 Patterning; 2.4.3.1 Through-mask Plating; 2.4.3.2 Frame Plating; 2.4.3.3 Ancillary Issues in Pattern Plating; 2.4.4 Materials; 2.4.4.1 Magnetic Materials Studies; 2.4.4.2 Hard-Baked Resist as Insulation; 2.5 Concluding Thoughts; 2.5.1 Fabrication Technology - the Key to a Manufactured Product; 2.5.2 Matching Product and Process 2.5.3 An Interdisciplinary Combination of Science, Engineering, and

Intuition Acknowledgments; References; Chapter 3 Electrochemical Surface Processes and Opportunities for Material Synthesis; 3.1 Introduction; 3.2 Underpotential Deposition (UPD); 3.3 Metal Deposition via Surface-Limited Redox Replacement of Underpotentially Deposited Metal Layer; 3.3.1 General Description; 3.3.2 Stoichiometry of SLRR Reactions and Deposition Process; 3.3.3 Driving Force for SLRR Reaction and Nucleation Rate of Depositing Metal; 3.3.4 Reaction Kinetics of Surface-Limited Redox Replacement
3.3.5 Future Directions 3.4 Underpotential Code position (UPCD); 3.4.1 Energetics: Beyond the Thermodynamic Approximation; 3.4.1.1 Ion Adsorption at the Electrode/Electrolyte Interface; 3.4.1.2 Potential of Zero Charge (PZC); 3.4.1.3 Surface Defects, Reconstruction, and Segregation; 3.4.1.4 Atomistic Description of the Growth Process; 3.4.2 Kinetics; 3.4.3 Equilibrium Alloy Structure and Phase Formation; 3.4.3.1 Binary Alloys Forming Solid Solutions and Ordered Compounds; 3.4.3.2 Intermetallic Compounds; 3.4.3.3 Alloys Immiscible in the Bulk; 3.4.4 Structure and Morphology of UPCD Alloy Films
3.4.4.1 Crystallographic Structure and Microstructure 3.4.4.2 Film Morphology; 3.4.5 Applications of UPCD Growth Methods; 3.4.5.1 Catalysis and Electrocatalysis; 3.4.5.2 Photovoltaics; 3.4.5.3 Magnetic Recording and Microsystems; Acknowledgments; References; Chapter 4 Mathematical Modeling of Self-Organized Porous Anodic Oxide Films; 4.1 Introduction; 4.2 Phenomenology of Porous Anodic Oxide Formation; 4.3 Mechanisms for Porous Anodic Oxide Formation; 4.4 Elements of Porous Anodic Oxide Models; 4.4.1 Ionic Migration Fluxes and Field Equations; 4.4.2 Bulk Motion of Oxide
4.4.3 Interfacial Reactions

Sommario/riassunto

In Volume XV in the series ""Advances in Electrochemical Science and Engineering"" various leading experts from the field of electrochemical engineering share their insights into how different experimental and computational methods are used in transferring molecular-scale discoveries into processes and products. Throughout, the focus is on the engineering problem and method of solution, rather than on the specific application, such that scientists from different backgrounds will benefit from the flow of ideas between the various subdisciplines. A must-read for anyone developing engineering tools for...