

1. Record Nr.	UNINA9910143569903321
Autore	Paunovic Milan
Titolo	Fundamentals of electrochemical deposition [[electronic resource] / / Milan Paunovic, Mordechay Schlesinger
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2006
ISBN	1-280-55149-6 9786610551491 0-470-00940-3 0-470-00939-X
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (388 p.)
Collana	The Electrochemical Society series
Altri autori (Persone)	SchlesingerMordechay
Disciplina	541.37 671.732
Soggetti	Electroplating Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	FUNDAMENTALS OF ELECTROCHEMICAL DEPOSITION; CONTENTS; Preface to the Second Edition; Preface to the First Edition; 1. Overview; 2. Water and Ionic Solutions; 3. Metals and Metal Surfaces; 4. Metal-Solution Interphase; 5. Equilibrium Electrode Potential; 6. Kinetics and Mechanism of Electrodeposition; 7. Nucleation and Growth Models; 8. Electroless Deposition; 9. Displacement Deposition; 10. Effect of Additives; 11. Electrodeposition of Alloys; 12. Metal Deposit and Current Distribution; 13. Characterization of Metallic Surfaces and Thin Films; 14. In Situ Characterization of Deposition 15. Mathematical Modeling in Electrochemistry 16. Structure and Properties of Deposits; 17. Electrodeposited Multilayers; 18. Interdiffusion in Thin Films; 19. Applications in Semiconductor Technology; 20. Applications in the Fields of Magnetism and Microelectronics; 21. Frontiers in Applications: The Field of Medicine; Index
Sommario/riassunto	Excellent teaching and resource material . . . it is concise, coherently structured, and easy to read . . . highly recommended for students, engineers, and researchers in all related fields.""-Corrosion on the First

Edition of Fundamentals of Electrochemical DepositionFrom computer hardware to automobiles, medical diagnostics to aerospace, electrochemical deposition plays a crucial role in an array of key industries. Fundamentals of Electrochemical Deposition, Second Edition is a comprehensive introduction to one of today's most exciting and rapidly evolving fields of practical kno
