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Nota di contenuto	Electropolymerization; Contents; Preface; List of Contributors; 1 Electropolymerized Films of p-Conjugated Polymers. A Tool for Surface Functionalization: a Brief Historical Evolution and Re; 2 Mechanisms of Electropolymerization and Redox Activity: Fundamental Aspects; 3 Electrochemical Impedance Spectroscopy (EIS) for Polymer Characterization; 4 Recent Trends in Polypyrrole Electrochemistry, Nanostructuring, and Applications 77; 5 Electropolymerized Azines: a New Group of Electroactive Polymers; 6 Electropolymerization of Phthalocyanines; 7 Imprinted Polymers 8 Gas Sensing with Conducting Polymers9 Chemical Sensors Based on Conducting Polymers; 10 Biosensors Based on Electropolymerized Films; 11 Inherently Conducting Polymers via Electropolymerization for Energy Conversion and Storage; 12 Electrochemomechanical Devices: Artificial Muscles; Index
Sommario/riassunto	Providing extensive coverage, including conducting, insulating and electroactive films, this handbook and ready reference deals with introductory topics and fundamentals as well as advanced insights.

Clearly structured, in the first part of the book readers learn the fundamentals of electropolymerization for all important types of polymers, mechanisms of film formation and functionalization, while the second part covers a wide range of applications in biochemistry, analytics, photovoltaics, energy and the environment as well as actuators.

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