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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Indicators for optical oxygen sensors -- Electron transfer mechanisms between microorganisms and electrodes in bioelectrochemical systems -- Synthesis and application of monodisperse polymeric nano- and micro-particles -- Upconverting phosphor labels for bioanalytical assays -- Biosensors based on periplasmatic binding proteins -- Periplasmic binding proteins in biosensing applications -- Hyphenation of electrochemistry with mass spectrometry for bioanalytical studies.
Sommario/riassunto	Expert authors provide critical, in-depth reviews of available methods for retrieving selective information out of complex biological systems. Sensors, probes and devices are present and future tools of medicinal diagnostics, environmental monitoring, food analysis and molecular biology. These are based on fluorescence, electrochemistry and mass spectrometry. Coverage of this volume includes sensor development for the detection of small analytes, monitoring of biomolecular interactions, analysis of cellular function, development of diagnostic tools.