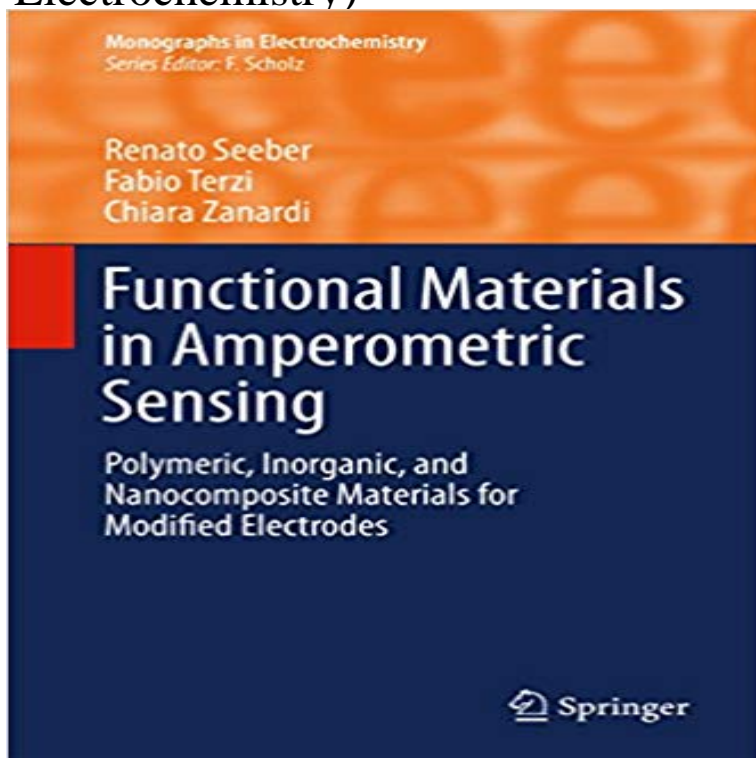


# Functional Materials in Amperometric Sensing: Polymeric, Inorganic, and Nanocomposite Materials for Modified Electrodes (Monographs in Electrochemistry)



Amperometric sensors, biosensors included, particularly rely on suitable electrode materials. Progress in material science has led to a wide variety of options that are available today. For the first time, these novel functional electrode coating materials are reviewed in this monograph, written by and for electroanalytical chemists. This includes intrinsically conducting, redox and ion-exchange polymers, metal and carbon nanostructures, silica based materials. Monolayers and relatively thick films are considered. The authors critically discuss preparation methods, in addition to chemical and physical characteristics of these new materials. They present various examples of emerging applications in electroanalysis. Due to its comprehensive coverage, the book will become an indispensable source for researchers working on the development and even proper use of new amperometric sensor systems.

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