



Single Molecule Chemistry and Physics: An Introduction (NanoScience and Technology)

Chen Wang, Chunli Bai

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Single-molecule studies constitute a distinguishable category of focused - search in nanoscience and nanotechnology. This book is dedicated to the - troduction of recent advances on single-molecule studies. It will be illustrated that studying single molecules is both intellectually and technologically ch- lenging, and also o?ers vast potential in opening up new scienti?c frontiers. We wish to present the readers with several di?erent techniques for studying single molecules, such as electron-tunneling methods, interaction-force measurement techniques, optical spectroscopy, plus a number of directions where further progress could be pursued. We hope the work may assist the readers, especially graduate students and those who wish to explore single molecules, to become familiarized with the pace of the progress in this ?eld and the relevant primary techniques. Due to limitation of space, we are not able to elaborate on the technical details of all of the experimental methods that are vital in single molecule studies, so introductions to only selected experimental methods are touched in the context. Since the technical details and theoretical analysis of these techniques have already been thoroughly covered in many literatures, we only provide introductions to the basic principles of the detection techniques here, and focus on their experimental achievements in the area of single-molecule studies. These techniques have proven to be highly e?ective when indep- dently used. The combination of those techniques could lead to further - vances in the detection capabilities.

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