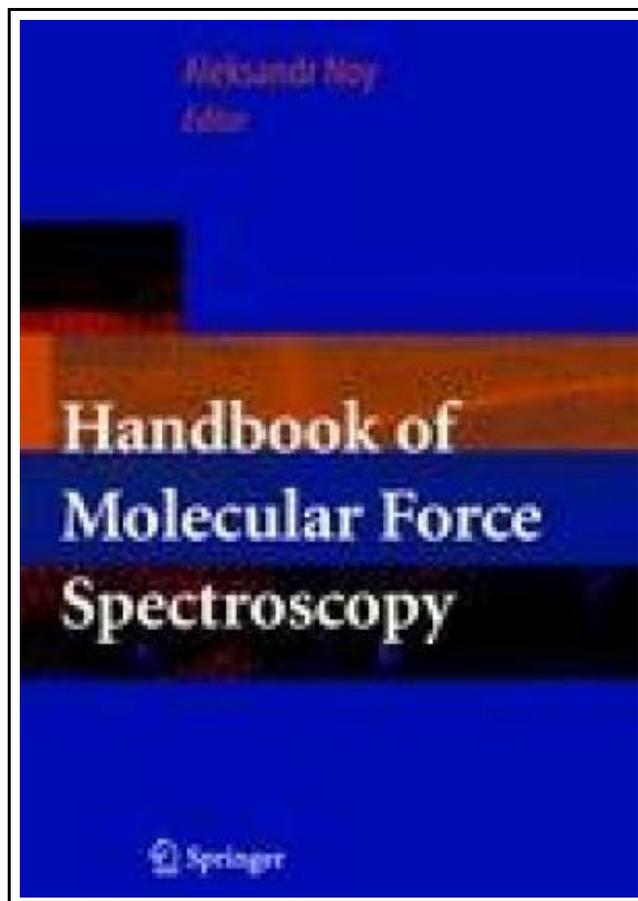


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HANDBOOK OF MOLECULAR FORCE SPECTROSCOPY



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Springer Nov 2010, 2010. Taschenbuch. Book Condition: Neu. 254x178x17 mm. This item is printed on demand - Print on Demand Neuware - Researchers in academia and industry who are interested in techniques for measuring intermolecular forces will find this an essential text. It presents a review of modern force spectroscopy, including fundamentals of intermolecular forces, technical aspects of the force measurements, and practical applications. The handbook begins with a review of the fundamental physics of loading single and multiple chemical bonds on the nanometer scale. It contains a discussion of thermodynamic and kinetic models of binding forces and dissipation effects in nanoscale molecular contacts, covers practical aspects of modern single-molecule level techniques, and concludes with applications of force spectroscopy to chemical and biological processes. Computer modeling of force spectroscopy experiments is also addressed. 'Noy's Handbook of Molecular Force Spectroscopy is both a timely and useful summary of fundamental aspects of molecular force spectroscopy, and I believe it would make a worthwhile addition to any good scientific library. New research groups that are entering this field would be well advised to study this handbook in detail before venturing into the exciting and challenging world of molecular force spectroscopy.' Matthew F. Paige, University of Saskatchewan, Journal of the American Chemical Society Modern materials science and biophysics are increasingly focused on studying and controlling intermolecular interactions on the single-molecule level. Molecular force spectroscopy was developed in the past decade as the result of several unprecedented advances in the capabilities of modern scientific instrumentation, and defines a number of techniques that use mechanical force measurements to study interactions between single molecules and molecular assemblies in chemical and biological systems. Examples of these techniques, which typically target a specific range of experimental systems and geometries, include atomic force microscopy, optical tweezers, surface forces apparatus, and magnetic...



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