



# Handbook of Molecular Force Spectroscopy

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# Handbook of Molecular Force Spectroscopy

## Handbook of Molecular Force Spectroscopy

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.

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