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Altri autori (Persone)	DuwezAnne-Sophie WilletNicolas
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Nota di contenuto	Front Cover; Contents; Preface; Editors; Contributors; Chapter 1: Molecular Recognition Force Spectroscopy; Chapter 2: Mechanics of Proteins and Tailored Mechanics of Engineered Proteins; Chapter 3: Mechanics of Polysaccharides; Chapter 4: Mechanics and Interactions in DNA and RNA; Chapter 5: Mechanics of Synthetic Polymers; Chapter 6: Interplays between Chemistry and Mechanics in Single Molecules; Chapter 7: Molecular Construction: Pushing, Moving, Stretching, and Connecting Individual Molecules; Chapter 8: Extracting Molecules from Surfaces Chapter 9: Single-Molecule Delivery by MechanochemistryChapter 10: Single-Molecule Cut and Paste; Back Cover
Sommario/riassunto	The manipulation of molecules is an active area of research with applications in chemistry, biology, physics, engineering, and polymer science. This book provides a comprehensive review of single molecule manipulation with atomic force microscopy (AFM). The text demonstrates that AFMs are capable of meeting the three main challenges in molecular manufacturing: manipulating and positioning

each atom or molecule in the right place, making the atom or molecule form certain bonds, and achieving high-throughput fabrication. New and experienced researchers will find a wealth of information in this informative volume which demonstrates the potential of AFMs beyond imaging--

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