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Nota di contenuto	Contents; List of Figures; Gallery of STM Images; 1 Overview; PART I: IMAGING MECHANISM; PART II : INSTRUMENTATION; Appendix A: Real wavefunctions; Appendix B: Green's functions; Appendix C: Spherical modified Bessel functions; Appendix D: Two-dimensional Fourier series; Appendix E: Plane groups and invariant functions; Appendix F: Elementary elasticity theory; Appendix G: A short table of Laplace transforms; Appendix H: Operational amplifiers; References; Index
Sommario/riassunto	A graduate-level introduction to scanning tunnelling microscopy, which explains how the method's ability to map microscopic surfaces non-destructively has found major applications in physics, surface science, materials science, biology, chemistry and engineering.