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Nota di contenuto	Chapter 1.Molecular adsorption effects on excitons in air-suspended carbon nanotubes -- Chapter 2.Terahertz Nanoscopy for Semiconductor Metrology -- Chapter 3.Simple and rapid DNA quantification based on conjugation-optimized gold nanoparticles -- Chapter 4.Low-threshold Raman Silicon Lasers Using Photonic Crystal High-Q Nanocavities -- Chapter 5.Two-dimensional electronic spectroscopy of organic semiconductor nanostructures -- Chapter 6. Advances in surface induced artificial structural colors.
Sommario/riassunto	This book features a collection of reviews focusing on interrelated topics in nanophotonics, nanotechnology, nano-optics, and near-field optics written by some of the world's leading scientists in these fields. This book discusses recent developments both fabrication and applications of nanomaterials with sub-nanometer scale. Additionally, it reviews selected topics in the areas of THz nanoscopy and ultrafast

spectroscopy of nanomaterials. This book also reviews recent advances in low-threshold silicon Raman lasers based on high-Q photonic crystal nanocavities. Finally, this book reviews artificial structural colours, emphasising both physical effects and fabrication issues.