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2.2.2.2 Harmonic Approximation; 2.2.2.3 Lattice Dynamics; 2.2.2.4 Phonons at Surfaces; 2.2.3 Electron-Phonon Coupling in Metals; 2.2.4 Excitons: Electron-Hole Pairs in Semiconductor Quantum Wells  
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 3.4.3 Scanning Tunneling Methods

Sommario/riassunto

This two-volume work covers ultrafast structural and electronic dynamics of elementary processes at solid surfaces and interfaces, presenting the current status of photoinduced processes. Providing valuable introductory information for newcomers to this booming field of research, it investigates concepts and experiments, femtosecond and attosecond time-resolved methods, as well as frequency domain techniques. The whole is rounded off by a look at future developments.