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Understanding the mechanism of physical, chemical and biological change at the microscopic scale is critical for a broad range of science and technology. A common goal is to develop this understanding to the point where it becomes possible to tailor functionality through material design, or by the application of electric, magnetic or optical fields. Across a broad range of disciplines the scientific community is currently frustrated by its inability to dynamically image matter down to the atomic scale.

We can at present only observe relatively slow motion changes to structure, or infer dynamical effects via indirect measurements. Yet many critically important processes evolve on the femtosecond timescale and at the molecular and sub-cellular level requiring nanometre and sub-nanometre scale spatial resolution. The properties of light from newly developing photon sources such as free electron lasers (FELs) are dramatically different from those of storage rings (in terms of spectral brightness), and from conventional lasers (in terms of wavelength range). In the course of the last few years FELs and other sources have emerged as exceptionally exciting tools for new science – for example, solution phase chemistry, enzyme and surface catalysis and DNA photo-induced radiation damage.

In this volume the topics covered include: Chemical reaction dynamics; Electron dynamics in atoms, molecules and clusters; Correlated systems, surfaces and catalysis; Nanoscale and bio imaging

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