



## Atoms and Molecules in Laser and External Fields (Hardback)

By -

Alpha Science International Ltd, United Kingdom, 2008. Hardback. Condition: New. Language: English . Brand New Book. The recent evolution of lasers and other external field (e.g. Synchrotron radiation, strong electric and magnetic fields) sources is opening up new frontiers of science which cover explorations in broad areas ranging from atomic, molecular and optical physics (AMOP) to nuclear fusion and high energy particle physics; even further to astrophysics and cosmology. Atomic and molecular dynamics is being explored at the femto and near atto- second time scale. Ultra-intense laser and other external fields attracting vigorous attention and interest from the view point of their control. The topics covered in the book are: Applications of ultra-intense ultra-short pulse lasers; Atoms, molecules and clusters in strong laser and other external fields; high field chemistry; high harmonic generation (HHG), X-ray generation by laser matter interactions and their applications, collisions in laser fields, relativistic particle generation and acceleration by super-strong laser plasma interactions etc.



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