Record Nr. UNINA9910806982203321 **Titolo** Advances in multi-photon processes and spectroscopy [[electronic resource]]. Volume 18 / / edited by S.H. Lin, A.A. Villaeys, Y. Fujimura Pubbl/distr/stampa Hackensack, NJ,: World Scientific, c2008 **ISBN** 1-281-93399-6 9786611933999 981-279-174-4 Descrizione fisica 1 online resource (304 p.) Collana Advances in Multi-Photon Processes and Spectroscopy;; v.18 Altri autori (Persone) FujimuraY (Yuichi) LinS. H <1937-> (Sheng Hsien) VillaeysA. A Disciplina 543.085 543.0858 543/.0858 Soggetti Molecular spectra Multiphoton processes Spectrum analysis Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. Nota di contenuto Contents; Preface; 1. Nonlinear Optics for Characterizing XUV/Soft Xray High-order Harmonic Fields in Attosecond Regime Yasuo Nabekawa

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## Sommario/riassunto

This book presents the latest developments and issues in both experimental and theoretical studies of multi-photon processes and the spectroscopy of atoms, ions and molecules in physics, chemistry, biology and material science. It contains review papers suitable for both active researchers and non-experts who wish to enter the field. Special attention is paid to the recent progress of non-linear photon-matter interactions in atoms, molecules and interfaces: XUV/soft X-ray, high-order harmonic generation in attosecond regime, high-order harmonic generation, sum frequency generation, four-wave