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Nota di contenuto	CONTENTS; 1. Wave Packet Analysis of Femtosecond Stimulated Raman Spectroscopy K. Niu, B. Zhao, Z. Sun and Soo-Y. Lee; 1. Introduction; 2. Theory; 2.1 Coupled wave theory of FSRS and its limitations; 2.2 Quantum theory of FSRS; 3. Applications, Results and Discussion; 3.1 Analytic results for FSRS from a stationary state with polyatomic harmonic potentials; 3.2 Application to FSRS of Rhodamine 6G; 3.3 Application to the FSRS from a coherent vibrational state of CDCl <sub>3</sub> ; 3.3.1 Direct fifth-order process; 3.3.2 Cascade processes; 3.3.3 Direct fifth-order and cascade results of CDCl <sub>3</sub> 3 4. Conclusion and outlookAcknowledgements; References; 2. Field-Free Molecular Alignment by Two Femosecond Laser Pulses Chengyin Wu, Hongbing Jiang and Qihuang Gong; 1. Introduction; 2. Theory; 2.1

Creation of rotational wavepacket; 2.2 Characterization of rotational wavepacket; 2.3 Control of rotational wavepacket; 3. Experimental Method; 4. Results and Discussion; 4.1 Manipulation of alignment structures; 4.2 Enhancement of molecular alignment; 4.3 Control of molecular population; 5. Applications of Field-Free Aligned Molecules - Frequency Tuning of Few Cycle Femtosecond Laser Pulses 5.1 Parameters 5.2 Simulation; 6. Conclusions; Acknowledgements; References; 3. High-Order Harmonic Generation from C60 Fullerene Plasma T. Ozaki; 1. Introduction; 2. Experimental Set-up; 3. Results and Discussion; 3.1 Observation of high-order harmonics from C fullerenes; 3.2 Influence of various experimental parameters on the HHG efficiency in fullerene plasma; 3.3 Simulations of harmonic spectra from C fullerenes; 3.4 Discussions; 4. Conclusions; References 4. Attosecond Pulse Generation, Characterization and Application Shouyuan Chen, Steve Gilbertson, He Wang, Michael Chini, Kun Zhao, Sabih Khan, Yi Wu, and Zenghu Chang 1. Introduction; 2. Ultrafast Laser Development and CE Phase Stabilization for Attosecond Pulse Generation; 2.1 CE phase drift caused by the grating drift in stretcher and compressor; 2.2 CE phase stabilization of multi-pass and regenerative amplifiers; 3. Attosecond Gating Technology; 3.1 Two-color gating; 3.2 Polarization gating; 3.3 Double optical gating; 3.4 Generalized double optical gating; 3.5 DOG and GDOG optics 4. Attosecond Pulse Measurement and Characterization 4.1 Attosecond streak camera; 4.2 Frequency-resolved optical gating for complete reconstruction of attosecond bursts; 4.3 Phase retrieval by omega oscillation filtering; 5. Application of Attosecond Pulse; 5.1 Study of Helium autoionization by attosecond streaking; 5.2 Time resolved spectroscopy study of Argon; 6. Summary and Outlook; References; 5. Near-Field Imaging of Optical-Field Structures and Plasmon Wave Functions in Metal Nanostructures Hiromi Okamoto and Kohei Imura; 1. Introduction 2. What can be Observed by Near-Field Optical Imaging?

## 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, molecules and nanomaterials in Physics, Chemistry, Biology and Material Science. It is an important addition to an advanced series that contains review papers suitable for both active researchers in these areas and non-experts who wish to enter the field. Special attention is paid to the recent progress of nonlinear photon-matter interactions applied to femtosecond laser induced nonadiabatic molecular alignment, high-order harmonic generati

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Nota di contenuto	Contents; Preface; The Church and the State in Cuba; Catholicism in Cuba - Margaret E. Crahan; Toward an Understanding of the Church-State Rapprochement in Revolutionary Cuba - John M. Kirk; International and National Aspects of the Catholic Church in Cuba - Jorge I. Dominguez; Baptists in Western Cuba: From the Wars of Independence to Revolution - Harold Greer; The Writer and the State in Cuba; Recent Trends in Cuban Criticism and Literature - Verity A. Smith; Cuban Criticism and Literature: A Reply to Smith - Roberto Gonzalez Echevarria The Limits of Expression: Intellectual Freedom in Postrevolutionary Cuba - Georgina Dopico Black Potpourri; Interpreting the U.S. Reaction to the Cuban Revolution, 1959-1960 - Jules R. Benjamin; Progress, Science and Myth: The Health Education of Cuban Women - Lois M. Smith; Research Note; Wages, Earnings, Hours of Work, and Retail Prices in Cuba - Jorge F. Perez-Lopez; Reviews; Recent Work in Cuban Studies; Contributors
Sommario/riassunto	Essays in volume 19 approach the provocative issues of religion, freedom of literary expression, and women's health care. The Catholic church in Cuba today is discussed in terms of its historic role, the current detente in its relations with the government, and the influence of national and international pressures. Protestantism in Cuba is

represented by the experience of the Baptist church since Independence. The claim that official censorship toward Cuban artists and intellectuals has been relaxed is rebutted by charges that the situation has grown worse and that the mediocrity rules.

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