ADVANCES IN MULTI-PHOTON PROCESSES AND SPECTROSCOPY

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ADVANCES IN MULTI-PHOTON PROCESSES AND SPECTROSCOPY

Volume 13

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PREFACE

In view of the rapid growth in both experimental and theoretical studies of multiphoton process and multiphoton spectroscopy of atoms, ions and molecules in chemistry, physics, biology, materials science, etc., it is desirable to publish an Advanced Series that contains review papers readable not only by active researchers in these areas, but also by those who are not experts in the field but who intend to enter the field. The present series attempts to serve this purpose. Each review article is written in a self-contained manner by the experts in the area so that the readers can grasp the knowledge in the area without too much preparation.

The topics covered in this volume are "Quantum Control of Molecular Dynamics", "Modern Perspective on Coherent Control", "Theoretical Studies in Real-time Laser Control of Unimolecular Reactions", "Molecular Engineering of Push-Pull Chromophores", "Study of the Vibrational and Electronic Dephasings in Steady-state and Time-resolved Pumped Sum-frequency Generation Spectroscopy". The editors wish to thank the authors for their important contributions. It is hoped that the collection of topics in this volume will be useful not only to active researchers but also to other scientists in biology, chemistry, materials science and physics.

S. H. Lin

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