ADVANCES IN MULTI-PHOTON PROCESSES AND SPECTROSCOPY

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ADVANCES IN MULTI-PHOTON PROCESSES AND SPECTROSCOPY

Volume

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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 “Polarizabilities and Hyperpolarizabilities of Dendritic Systems”, “Molecules in Intense Laser Fields: Nonlinear Multiphoton Spectroscopy and Near-Femtosecond To Sub-Femtosecond (Attosecond) Dynamics”, and “Ultrafast Dynamics and non-Markovian Processes in Four-Photon 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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