Small Animal Practice (Current Veterinary Therapy, XI) (No. 11)

Synopsis

This thirteenth volume in the PUILS series covers a broad range of topics from this interdisciplinary research field, focusing on atoms, molecules, and clusters interacting in intense laser field and high-order harmonics generation and their applications. The series delivers up-to-date reviews of progress in ultrafast intense laser science, the interdisciplinary research field spanning atomic and molecular physics, molecular science, and optical science, which has been stimulated by the developments in ultrafast laser technologies. Each volume compiles peer-reviewed articles authored by researchers at the forefront of each their own subfields of UILS. Typically, each chapter opens with an overview of the topics to be discussed, so that researchers unfamiliar to the subfield, as well as graduate students, can grasp the importance and attractions of the research topic at hand; these are followed by reports of cutting-edge discoveries. Â Â --This text refers to an alternate Hardcover edition.

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Customer Reviews

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Kaoru Yamanouchi has been Professor of Chemistry at The University of Tokyo since April 1997. His research fields are in physical chemistry and AMO physics, especially gas phase laser spectroscopy, chemical reaction dynamics, and intense laser science. In 1996, he launched a new research project to investigate how atoms, molecules, and clusters behave in an intense laser field whose magnitude is as large as that of a Coulomb field within atoms and molecules. By developing new experimental techniques such as mass-resolved momentum imaging, pulsed gas electron diffraction, and coincidence momentum imaging, he has continued a successful exploration of the new research field of ultrafast intense laser science. Among his discoveries, ultrafast structural deformation of molecules and ultrafast hydrogen atom migration within hydrocarbon molecules are particularly noteworthy. He has also demonstrated that the ultrafast structural changes of molecules can in principle be probed in real time with femtosecond temporal resolution using a method called laser-assisted electron diffraction. Wendell T. Hill, III has held the rank of Professor since 1996 at the University of Maryland, College Park, with appointments in the Institute for Physical Science and Technology and the Department of Physics; he has been a fellow of the Joint Quantum Institute at the University of Maryland since 2006.Â From high-energy particle physics to atomic, molecular and optical (AMO) physics to condensed matter physics, Hillâ ™s publications span a broad range of physics subdisciplines. Â His current investigations fall into three AMO areas:Â ultrafast quantum dynamics; ultraintense laser-matter interactions; ultracold quantum atoms.Â His group was one of the first to employ velocity-map imaging, coupled with optimal-control techniques, to control femtosecond molecular dynamics.Â His most recent work finds him developing approaches to exploit phase-locked pairs of pulses, both to control dynamics and to decipher optimal control pulses. In addition to numerous journal manuscripts, he wrote the introductory chapter on electromagnetic radiation for the â œEncyclopedia of Applied Spectroscopy,â • published in 2009 by Wiley, co-author the physics text â œLight-Matter Interaction: Atoms and Molecules in External Fields and Nonlinear Optics,â • published in 2007 by Wiley and co-edited â œProgress in Ultrafast Intense Laser Science VIII,â • published in 2012 by Springer Science.Â Gerhard G. Paulus has been a Professor of Nonlinear Optics at Friedrich Schiller University since September 2007, after leaving Texas A&M University, where he was Associate Professor of Physics since 2003. Currently,

he is the dean of the Faculty of Physics and Astronomy of his university. His research fields are strong-field and attosecond laser physics, high-precision X-ray polarimetry, and XUV nanoscale imaging. Key contributions are the discovery of the plateau in above-threshold ionization spectra and the measurement of the CE phase, the demonstration of X-ray polarimeters with an extinction ratio of 10 billion, and, most recently, the realization of optical coherence tomography in the extreme ultraviolet with nanometer resolution. --This text refers to an alternate Hardcover edition.

Veterinary Clinics of North America: Small Animal Practice: Current Issues in Cardiology, September 2004, 34:5 (Veterinary Clinics of North America, 34:5 September 2004) Small Animal Practice (Current Veterinary Therapy, XI) (No. 11) Current Veterinary Therapy X: Small Animal Practice (No. 10) Robinson's Current Therapy in Equine Medicine, 7e (Current Veterinary Therapy) Fluid, Electrolyte, and Acid-Base Disorders in Small Animal Practice, 4e (Fluid Therapy In Small Animal Practice) Clinical Veterinary Dentistry, An Issue of Veterinary Clinics: Small Animal Practice, 1e (The Clinics: Veterinary Medicine) Clinical Veterinary Dentistry, An Issue of Veterinary Clinics: Small Animal Practice, E-Book (The Clinics: Veterinary Medicine) Advances in Veterinary Oncology, An Issue of Veterinary Clinics of North America: Small Animal Practice, 1e (The Clinics: Veterinary Medicine) Advances in Veterinary Oncology, An Issue of Veterinary Clinics of North America: Small Animal Practice, E-Book (The Clinics: Veterinary Medicine) Current Therapy in Vascular and Endovascular Surgery, 5e (CURRENT THERAPY IN VASCULAR SURGERY) BSAVA Small Animal Formulary (BSAVA British Small Animal Veterinary Association) Manual of Small Animal Dentistry (BSAVA British Small Animal Veterinary Association) BSAVA Manual of Small Animal Dentistry (BSAVA British Small Animal Veterinary Association) Manual of Small Animal Dermatology (BSAVA British Small Animal Veterinary Association) Exotic Animal Oncology, An Issue of Veterinary Clinics of North America: Exotic Animal Practice, 1e (The Clinics: Veterinary Medicine) Exotic Animal Oncology, An Issue of Veterinary Clinics of North America: Exotic Animal Practice, E-Book (The Clinics: Veterinary Medicine) Topics in Cardiology, An Issue of Veterinary Clinics of North America: Small Animal Practice, 1e (The Clinics: Veterinary Medicine) Dentistry, An Issue of Veterinary Clinics: Small Animal Practice, 1e (The Clinics: Veterinary Medicine) Clinical Dermatology, An Issue of Veterinary Clinics: Small Animal Practice, 1e (The Clinics: Veterinary Medicine) Clinical Dermatology, An Issue of Veterinary Clinics: Small Animal Practice, E-Book (The Clinics: Veterinary Medicine)