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Ultrafast Phenomena XV

Proceedings of the 15th International Conference, Pacific Grove, USA,
July 30 - August 4, 2006

Series: Springer Series in Chemical Physics

• Current status report on ultrafast phenomena

This volume is a collection of papers presented at the Fifteenth International Conference on Ultrafast Phenomena held at the Asilomar Conference Grounds, Pacific Grove, CA, USA, from July 31 – August 4, 2006. The Ultrafast Phenomena conferences are held every two years and provide a forum for discussion of the latest results in ultrafast optics and their applications in science and engineering. These meetings bring together researchers spanning several fields of science and engineering to discuss and debate the latest advances in ultrafast science. This unique forum provides a conduit for the greater dissemination of the latest advances using ultrashort coherent pulses of light. More than 280 papers were presented. Significant progress in creating ever shorter pulses of light was reported in the attosecond range, with new applications in high harmonic generation and frequency comb metrology. Multidimensional spectroscopy is rapidly evolving to provide new insights into quantum coherence and interactions in complex systems. Improvements in time resolved electron and x-ray diffraction provide better atomic scale perspectives on structural dynamics. These examples are but a small subset of the collected works gathered in this volume, which provides a valuable synopsis of the recent advances and impact of ultrafast technology in illuminating fundamental processes in physics, chemistry, and biology. There were 323 attendees at the meeting, more than one third of which were graduate and postdoctoral students. Increased student attendance energized the proceedings.

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