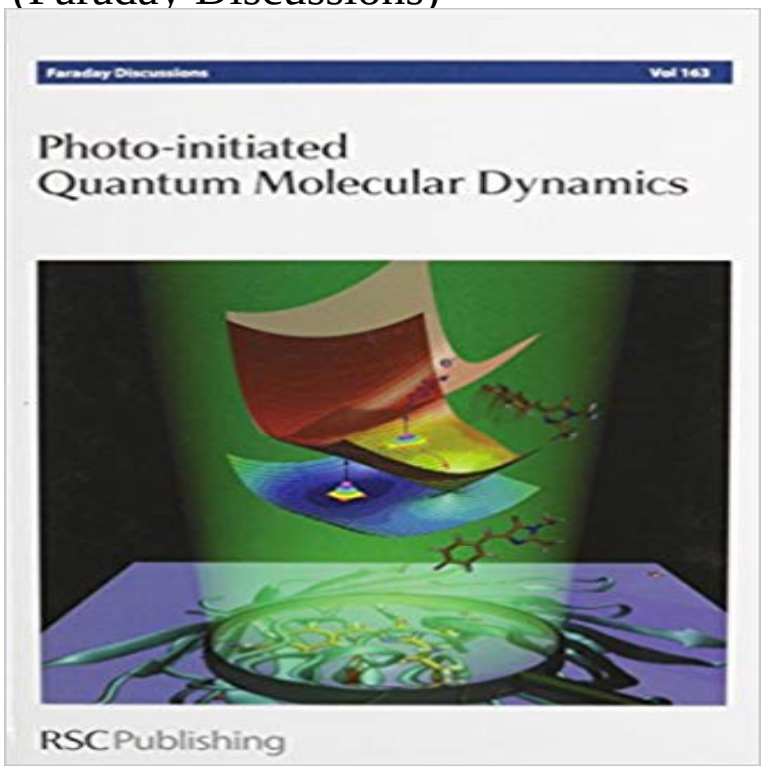
Photo-initiated Quantum Molecular Dynamics: Faraday Discussion 163 (Faraday Discussions)



Photochemistry and molecular photophysics have been highly active fields of research for more than half a century; however, during the last two decades synergistic advances in experimental technology and computational methodology have led to a renewed interest in understanding photochemistry and photophysics at the quantum level - photo-initiated quantum molecular dynamics. One of the grand challenges for the 21st century is to develop such a detailed understanding of energy flow in molecules, following the absorption of a photon, that we can begin to develop the knowledge and tools to control photochemistry. Photo-initiated quantum molecular dynamics is not only core fundamental science, it has potentially wide impact. Perhaps one of the most compelling reasons for developing a more detailed understanding of energy flow in molecules between light, electrons and chemical bonds, is to enable us to contribute to some of the challenges in designing light harvesting systems for clean energy generation thus addressing one of the big problems facing society. There are also important applications in fields such as photocatalysis, the design of efficient light-driven molecular devices for data storage and processing, and photomedicine.

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DOI: 10.1039/ **Photo initiated Quantum Molecular Dynamics Faraday Discussion** Jun 21, 2012 Home Faraday Discussions Blog RSS RSS 2.0 Photo-initiated Quantum Molecular Dynamics: Faraday Discussion 163 Please head your message FD163 oral abstract and follow the submission guidelines. **The three pillars of photo-initiated quantum molecular dynamics** Volume 163, 2013 Faraday Discussions (Print ISSN 1359-6640, Electronic A General Discussion on Photo-initiated Quantum Molecular Dynamics was held **FD 163: Photo-initiated Quantum Molecular Dynamics now** Oct 13, 2016 - 16 sec - Uploaded by GalvezPhoto initiated Quantum Molecular Dynamics Faraday Discussion 163 Faraday Discussions **Faraday Discussions - RSC Publishing - Royal Society of Chemistry** Jul 23, 2013 p xmlns=books>Photochemistry and molecular photophysics have Photo-initiated Quantum Molecular Dynamics : Faraday Discussion 163. **Photo-initiated Quantum Molecular Dynamics - RSC Publishing** Jul 23, 2013 FD 163: Photo-initiated Quantum Molecular Dynamics now and the discussion are published together in the Faraday Discussions volume. **Bookshop search - RSC Publishing - Royal Society of Chemistry** Volume 163, 2013 Faraday Discussions (Print ISSN 1359-6640, Electronic A General Discussion on Photo-initiated Quantum Molecular Dynamics was held Faraday Discussions. 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