



Charge and Energy Transfer Dynamics in Molecular Systems

Volkhard May, Oliver Kühn

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This 3rd edition has been expanded and updated to account for recent developments, while new illustrative examples as well as an enlarged reference list have also been added. It naturally retains the successful concept of its predecessors in presenting a unified perspective on molecular charge and energy transfer processes, thus bridging the regimes of coherent and dissipative dynamics, and establishing a connection between classic rate theories and modern treatments of ultrafast phenomena.

Among the new topics are:

- Time-dependent density functional theory
- Heterogeneous electron transfer, e.g. between molecules and metal or semiconductor surfaces
- Current flows through a single molecule.

While serving as an introduction for graduate students and researchers, this is equally must-have reading for theoreticians and experimentalists, as well as an aid to interpreting experimental data and accessing the original literature.

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