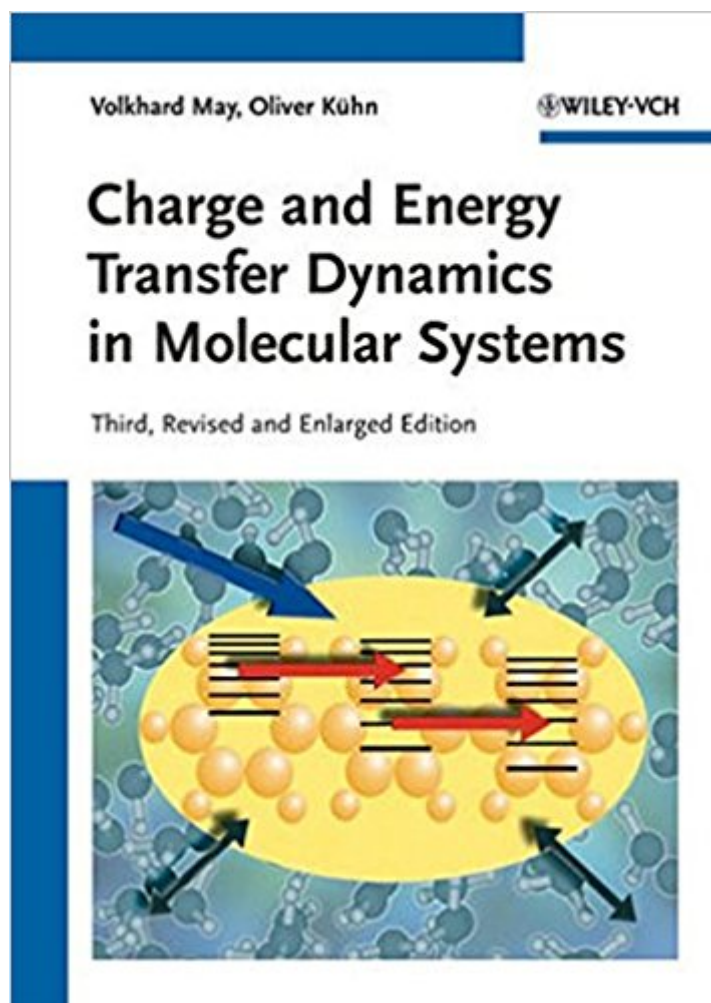


The book was found

# Charge And Energy Transfer Dynamics In Molecular Systems



## Synopsis

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.

## Book Information

Hardcover: 581 pages

Publisher: Wiley-VCH; 3 edition (March 21, 2011)

Language: English

ISBN-10: 3527407324

ISBN-13: 978-3527407323

Product Dimensions: 6.9 x 1.2 x 9.7 inches

Shipping Weight: 2.7 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 3 customer reviews

Best Sellers Rank: #490,087 in Books (See Top 100 in Books) #25 in Books > Science & Math > Chemistry > Physical & Theoretical > Quantum Chemistry #83 in Books > Science & Math > Physics > Molecular Physics #270 in Books > Science & Math > Physics > Nuclear Physics

## Customer Reviews

"A few months after the first edition of May and Kuehn's book was released, I met a Danish colleague at a conference in Montreux (on Lake Geneva). He had spent the weekend reading the book in his hotel room, despite the beautiful weather and nice sightseeing! This anecdote illustrates the success met by the first edition, and if you liked it, then you will like the second edition even more! ... the book provides a didactic and pedagogic presentation of molecular processes." Prof. Majed Chergui, Laboratory of Ultrafast Spectroscopy, Ecole Polytechnique Fédérale de Lausanne, ChemPhysChem, 4/2005

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 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. While serving as an introduction for graduate students and researchers, this is equally a must-have reference for graduate students and experimentalists, as well as an aid to interpreting experimental data and accessing the original literature. From the contents: Electronic and Vibrational Molecular States. Dynamics and Isolated and Open Quantum Systems Interaction of Molecular Systems with Radiation Fields. Vibrational Dynamics: Energy Redistribution, Relaxation, and Dephasing. Intramolecular Electronic Transitions Å Electron Transfer Proton Transfer Excitation Energy Transfer

There's a lot of math, which is good because there are so many equations used in the literature. A must-have for anyone who wants to do some theoretical work on electron and/or energy transfer.

This book by Mr May and Mr KÃ hn gives thorough insight into the interactions of excited molecular systems. If you are not afraid of quantum mechanics and like to know the theoretical connections and differences of effects like FÃ rster Resonance Energy Transfer, Photo induced Electron Transfer, Dexter mechanisms, and J- and H-dimerization. This is the right book for you. It might be better to be at least a masters student or a scientist interested in the field.

It is a clear and thorough book on this very topic and people work in this field cite the book frequently. A must-have for scientists who work in related areas.

[Download to continue reading...](#)

Charge and Energy Transfer Dynamics in Molecular Systems Reiki: The Healing Energy of Reiki - Beginner's Guide for Reiki Energy and Spiritual Healing: Reiki: Easy and Simple Energy Healing Techniques Using the ... Energy Healing for Beginners Book 1) Energy Harvesting: Solar, Wind, and Ocean Energy Conversion Systems (Energy, Power Electronics, and Machines) Art Nouveau Alphabet Iron-On Transfer Patterns: 13 Authentic Art Nouveau Fonts (Dover Iron-On Transfer Patterns) Elegant Medieval Iron-On Transfer Patterns (Dover Iron-On Transfer Patterns) [ ENDOMETRIOSIS: THE COMPLETE REFERENCE FOR TAKING CHARGE OF YOUR HEALTH THE COMPLETE REFERENCE FOR TAKING CHARGE OF YOUR HEALTH ] By Ballweg, Mary

Lou ( Author) 2003 [ Paperback ] Tunneling Dynamics in Open Ultracold Bosonic Systems: Numerically Exact Dynamics â “ Analytical Models â “ Control Schemes (Springer Theses) Introduction to Thermal Sciences: Thermodynamics, Fluid Dynamics, Heat Transfer Biophysics of Electron Transfer and Molecular Bioelectronics (Electronics and Biotechnology Advanced (Elba) Forum Series) Renewable Energy Made Easy: Free Energy from Solar, Wind, Hydropower, and Other Alternative Energy Sources Crystals: The Ultimate Guide To: Energy Fields, Auras, Chakras and Emotional Healing (Aura, Healing Stones, Crystal Energy, Crystal Healing, Energy Fields, Emotional Healing, Gemstone) Lose Weight, Have More Energy and Be Happier in 10 Days: Take Charge of Your Health with the Master Cleanse Introduction to Hydro Energy Systems: Basics, Technology and Operation (Green Energy and Technology) Wind Energy Basics: A Guide to Home and Community-Scale Wind-Energy Systems, 2nd Edition Wind Energy Basics: A Guide to Home and Community Scale Wind-Energy Systems Power Systems and Energy Storage Modeling for Directed Energy Weapons Handbook of Solar Energy: Theory, Analysis and Applications (Energy Systems in Electrical Engineering) Introduction to Thermal Systems Engineering: Thermodynamics, Fluid Mechanics, and Heat Transfer Glencoe Biology: The Dynamics of Life, Reinforcement and Study Guide, Student Edition (BIOLOGY DYNAMICS OF LIFE) Diffusion: Mass Transfer in Fluid Systems (Cambridge Series in Chemical Engineering)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)