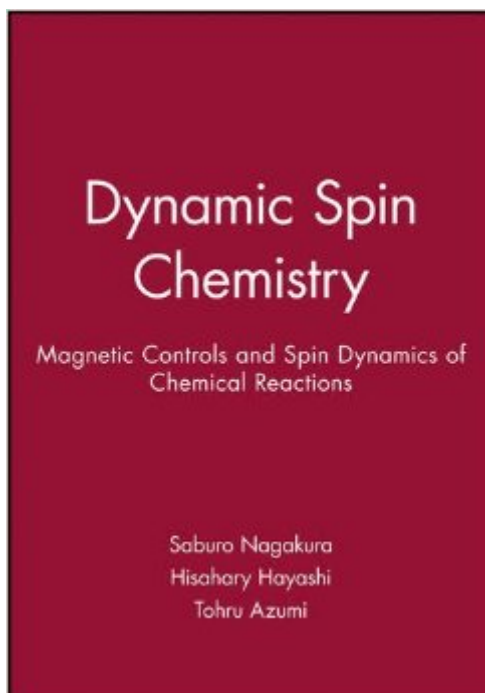


The book was found

# Dynamic Spin Chemistry: Magnetic Controls And Spin Dynamics Of Chemical Reactions



## Synopsis

Dynamic Spin Chemistry Edited by Saburo Nagakura, Hisaharu Hayashi and Tohru Azumi Because of increasing concerns over the effects of electromagnetic radiation on the human body, it has become essential to understand how chemical and biological reactions are affected by magnetic fields. Dynamic Spin Chemistry focuses on theoretical and experimental research showing the great influence on the dynamic behavior of molecules due to external magnetic fields, such as magnetic quenching of gaseous fluorescence, effects on chemical reaction rates and chemically induced dynamic nuclear and electron polarization. This book discusses both the theoretical and experimental foundations of dynamic spin chemistry, as well as its future trends. After the introductory chapter, the next three chapters discuss magnetic field effects and magnetic isotope effects on chemical reactions in solution and on the dynamic behavior of excited molecules in the gas phase. Subsequent chapters deal with the effects on chemical equilibria under large fields; spin spectroscopy; chemically induced dynamic electron polarization (CIDEP) studies and reaction yield-detected ESR. This book will be of interest to researchers and graduate students in pure and applied chemistry, physics or biology having an interest in photochemistry, photophysics or photobiology.

## Book Information

Hardcover: 297 pages

Publisher: Wiley-Kodansha; 1 edition (January 14, 1999)

Language: English

ISBN-10: 0471328367

ISBN-13: 978-0471328360

Product Dimensions: 6.9 x 0.8 x 9.7 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #3,496,981 in Books (See Top 100 in Books) #94 in Books > Science & Math > Chemistry > Nuclear Chemistry #162 in Books > Science & Math > Chemistry > Physical & Theoretical > Electrochemistry #701 in Books > Science & Math > Chemistry > Inorganic

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

Dynamic Spin Chemistry: Magnetic Controls and Spin Dynamics of Chemical Reactions

Bibliography of Magnetic Materials and Tabulation of Magnetic Transition Temperatures (Solid State Physics Literature Guides) Dynamics of Molecules and Chemical Reactions Concise Organic

Chemistry: Aromatic and Carbonyl Reactions, Oxidation-Reduction Reactions, Biomolecules, Natural Product and Heterocyclic Compounds Spin It To Win It Roulette Strategy: Win Every Spin Spin to Win: A Roller Derby Lesson Plan, Emphasizing Spin Techniques for Blockers & Jammers (Encyclopedia Skate-annica Book 1) Magnetic Isotope Effect in Radical Reactions: An Introduction Chemical Dynamics at Low Temperatures (Advances in Chemical Physics) Programmes in Organic Chemistry: Reactions of Carbonyl Compounds v. 5 (Chemical Science Texts) The Role of the Solvent in Chemical Reactions (Oxford Chemistry Masters) Dynamic Programming and Optimal Control, Vol. II, 4th Edition: Approximate Dynamic Programming Chemical Kinetics and Reaction Dynamics (Dover Books on Chemistry) The Principles of Chemical Equilibrium: With Applications in Chemistry and Chemical Engineering The Chemistry of Heterocyclic Compounds, Oxazoles: Synthesis, Reactions, and Spectroscopy, Part B (Chemistry of Heterocyclic Compounds: A Series Of Monographs) (Volume 60) Advanced organic chemistry: Reactions, mechanisms and structure (McGraw;Hill series in advanced chemistry) Organic Reactions in Liquid Ammonia, Volume 1, Part 2 of Chemistry in Anhydrous Liquid Ammonia (Chemistry in Nonaqueous Ionizing Solvents series) Nuclear Magnetic Resonance (Oxford Chemistry Primers) The Chemistry of Contrast Agents in Medical Magnetic Resonance Imaging High Resolution Nuclear Magnetic Resonance (Advanced Chemistry) Ace General Chemistry I and II (The EASY Guide to Ace General Chemistry I and II): General Chemistry Study Guide, General Chemistry Review

[Dmca](#)