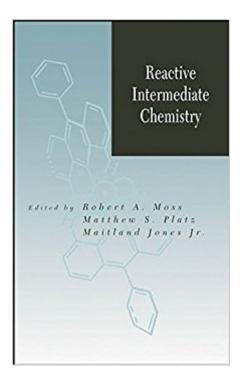


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Reactive Intermediate Chemistry





Synopsis

Reactive Intermediate Chemistry presents a detailed and timely examination of key intermediates central to the mechanisms of numerous organic chemical transformations. Spectroscopy, kinetics, and computational studies are integrated in chapters dealing with the chemistry of carbocations, carbanions, radicals, radical ions, carbenes, nitrenes, arynes, nitrenium ions, diradicals, etc. Nanosecond, picosecond, and femtosecond kinetic realms are explored, and applications of current dynamics and electronic structure calculations are examined. Reactive Intermediate Chemistry provides a deeper understanding of contemporary physical organic chemistry, and will assist chemists in the design of new reactions for the efficient synthesis of pharmaceuticals, fine chemicals, and agricultural products. Among its features, this authoritative volume is: Edited and authored by world-renowned leaders in physical organic chemistry. Ideal for use as a primary or supplemental graduate textbook for courses in mechanistic organic chemistry or physical chemistry. Enhanced by supplemental reading lists and summary overviews in each chapter.

Book Information

Hardcover: 1076 pages Publisher: Wiley-Interscience; 1 edition (January 7, 2004) Language: English ISBN-10: 0471233242 ISBN-13: 978-0471233244 Product Dimensions: 6.4 x 2.2 x 9.6 inches Shipping Weight: 3.6 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #4,227,385 in Books (See Top 100 in Books) #36 inà Â Books > Science & Math > Chemistry > Organic > Reactions #3458 inà Â Books > Medical Books > Medicine > Internal Medicine > Pathology > Clinical Chemistry

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Comprehensive coverage of reactive intermediates The chemistry of reactive intermediates is central to a modern mechanistic and quantitative understanding of organic chemistry. Moreover, it underlies a significant portion of modern synthetic chemistry and is integral to a molecular view of biological chemistry. Reactive Intermediate Chemistry presents an up-to-date, authoritative guide to this fundamental area of organic chemistry. Intended as a free-standing resource for the entire chemical community, it should be especially useful for graduate students as a primary or supplemental textbook. This volume features a "three-dimensional" approach in which reactive intermediates are considered by class, the kinetic realms they inhabit, and in historical context, connecting the older, product-based chemistry with contemporary direct observational and computational approaches. Other features include: Discussion of emerging areas involving dynamics and theory A list of suggested reading for each chapter, as well as extensive referencing Concluding sections that identify key research directions for the future Reactive Intermediate Chemistry is a clearly organized, accessible reference for the student or professional in academic, pharmaceutical, or industrial laboratories.

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