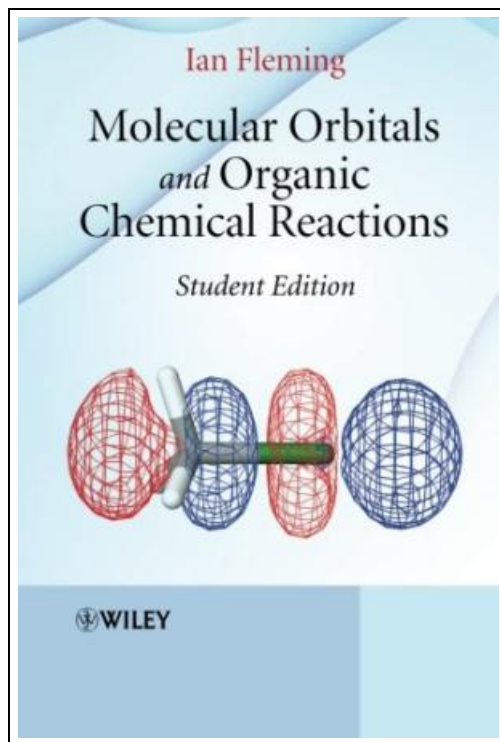


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MOLECULAR ORBITALS AND ORGANIC CHEMICAL REACTIONS: AN INTRODUCTION



John Wiley and Sons Ltd, United States, 2010. Paperback. Book Condition: New. Student Manual/Study Guide. 228 x 152 mm. Language: English . Brand New Book. Winner of the PROSE Award for Chemistry Physics 2010 Acknowledging the very best in professional and scholarly publishing, the annual PROSE Awards recognise publishers and authors commitment to pioneering works of research and for contributing to the conception, production, and design of landmark works in their fields. Judged by peer publishers, librarians, and medical professionals, Wiley are pleased to congratulate Professor Ian Fleming, winner of the PROSE Award in Chemistry and Physics for Molecular Orbitals and Organic Chemical Reactions. Molecular orbital theory is used by chemists to describe the arrangement of electrons in chemical structures. It is also a theory capable of giving some insight into the forces involved in the making and breaking of chemical bonds--the chemical reactions that are often the focus of an organic chemist s interest. Organic chemists with a serious interest in understanding and explaining their work usually express their ideas in molecular orbital terms, so much so that it is now an essential component of every organic chemist s skills to have some acquaintance with molecular orbital theory. Molecular Orbitals and Organic Chemical Reactions is both a simplified account of molecular orbital theory and a review of its applications in organic chemistry; it provides a basic introduction to the subject and a wealth of illustrative examples. In this book molecular orbital theory is presented in a much simplified, and entirely non-mathematical language, accessible to every organic chemist, whether student or research worker, whether mathematically competent or not. Topics covered include: Molecular Orbital Theory Molecular Orbitals and the Structures of Organic Molecules Chemical Reactions -- How Far and How Fast Ionic Reactions -- Reactivity Ionic Reactions -- Stereochemistry Pericyclic Reactions...



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