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Molecular Orbitals and Organic Chemical Reactions: Student Edition is an invaluable first textbook on this important subject for students of organic, physical organic and computational chemistry. The Reference Edition edition takes the content and the same non-mathematical approach of the Student Edition, and adds extensive extra subject coverage, detail and over 1500 references.

1.11 The Nature of Chemical Bonds: Molecular Orbital ...

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.

Molecular Orbitals and Organic Chemical Reactions | Wiley ...

Molecular orbitals and organic chemical reactions/Ian Fleming. — Reference ed. p. cm. Includes bibliographical references and index. ISBN 978-0-470-74658-5 1. Molecular orbitals. 2. Chemical bonds. 3. Physical organic chemistry. I. Title. QD461.F533 2010 5470.2—dc22 2009041770 A catalogue record for this book is available from the British ...

Molecular Orbital Theory, Bonding & Antibonding MO, Bond Order, Homonuclear Diatomic Molecules

In molecular orbital theory, we make a further statement: we say that the two atomic 1s orbitals don't just overlap, they actually combine to form two completely new orbitals. These two new orbitals, instead of describing the likely location of an electron around a single nucleus, describe the location of an electron pair around two or more nuclei.

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Molecular Orbitals and Organic Chemical Reactions: Student Edition serves in a sense as a second edition of the author's influential earlier book Frontier Orbitals and Organic Chemical Reactions, but has been completely rewritten, greatly enlarging the chapters on molecular orbital theory itself, and on the theoretical basis for the principle of hard and soft acids and bases, and a whole ...

Molecular Orbitals and Organic Chemical Reactions

Molecular Orbitals and Organic Chemical Reactions (Paperback). Winner of the PROSE Award for Chemistry & Physics 2010 Acknowledging the very best in...

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The student edition of Molecular Orbitals and Organic Chemical Reactions presents molecular orbital theory in a simplified form, and offers an invaluable first textbook on this important subject for students of organic, physical organic and computational chemistry. Further information can be viewed here.

Molecular Orbitals and Organic Chemical Reactions, Student ...

Provides a basic introduction to frontier orbital theory with a review of its applications in organic chemistry. Assuming the reader is familiar with the concept of molecular orbital as a linear combination of atomic orbitals the book is presented in a simple style, without mathematics making it accessible to readers of all levels.

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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 ...

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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.

Frontier Orbitals and Organic Chemical Reactions by Ian ...

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