

1. Record Nr.	UNINA9910462891903321
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Titolo	March's advanced organic chemistry [[electronic resource] ] : reactions, mechanisms, and structure / / Michael B. Smith
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2013
ISBN	1-5231-0988-2 1-299-63397-8 1-118-47225-X 1-118-47221-7
Edizione	[7th ed.]
Descrizione fisica	1 online resource (2075 p.)
Disciplina	547
Soggetti	Chemistry, Organic Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes indexes.
Nota di contenuto	Localized chemical bonding -- Delocalized chemical bonding -- Bonding weaker than covalent -- Stereochemistry and conformation -- Carbocations, carbanions, free radicals, carbenes, and nitrenes -- Mechanisms and methods of determining them -- Irradiation processes in organic chemistry -- Acids and bases -- Effects of structure and medium on reactivity -- Aliphatic substitution, nucleophilic and organometallic -- Aromatic substitution, electrophilic -- Aliphatic, alkenyl, and alkynyl substitution, electrophilic and organometallic -- Aromatic substitution, nucleophilic and organometallic -- Substitution reactions, radical -- Addition to carbon-carbon multiple bonds -- Addition to carbon-hetero multiple bonds -- Eliminations -- Rearrangements -- Oxidations and reductions -- Appendix A. The literature of organic chemistry -- Appendix B. Classification of reactions by type of compounds synthesized.
Sommario/riassunto	The new, revised and updated 7th edition of March's Advanced Organic Chemistry clearly explains the theories and examples of organic chemistry, providing the most comprehensive resource about organic chemistry available. Readers are guided on planning and execution of multi-step synthetic reactions, with detailed descriptions of all the

reactions. The first five chapters deal with the structure of organic compounds and discuss important organic chemistry bonds, fundamental principles of conformation, and stereochemistry of organic molecules, and reactive intermediates in organic chemistry. Chapters 6 to 9 are concerned with general principles of mechanism in organic chemistry, including acids and bases, photochemistry, sonochemistry and microwave irradiation, and finally the relationship between structure and reactivity. The last 10 chapters cover the nature and the scope of organic reactions and their mechanisms.

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