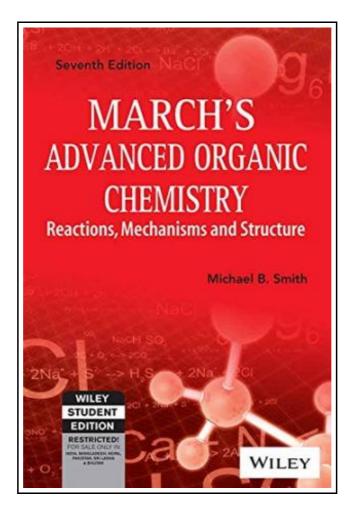
# March`s Advanced Organic Chemistry: Reactions Mechanisms and Structure (Seventh Edition)



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#### Reviews

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## MARCH'S ADVANCED ORGANIC CHEMISTRY: REACTIONS MECHANISMS AND STRUCTURE (SEVENTH EDITION)



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Wiley India Pvt. Ltd, 2015. Softcover. Book Condition: New. 5th or later edition. The new, revised and updated edition 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. 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 Table of Contents Preface Common Abbreviations Biographical Statement Part I Introduction 1. Localized Chemical Bonding 1.A. Covalent Bonding 1.B. Multiple Valence 1.C. Hybridization 1.D. Multiple Bonds 1.E. Photoelectron Spectroscopy 1.F. Electronic Structures of Molecules 1.G. Electronegativity 1.H. Dipole Moment 1.I. Inductive and Field Effects 1.J. Bond Distances 1.K. Bond Angles 1.L. Bond Energies 2. Delocalized Chemical Bonding 2.A. Molecular Orbitals 2.B. Bond Energies and Distances in Compounds Containing Delocalized Bonds 2.C. Molecules that have Delocalized Bonds 2.D. Cross-Conjugation 2.E. The Rules of Resonance 2.F. The Resonance...

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