



## Organic Chemistry: A Short Course

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Cengage Learning, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service!  
 Summary: Preliminary Contents Note: Each chapter concludes with Additional Problems. 1. Bonding and Isomerism 1.1 How Electrons are Arranged in Atoms 1.2 Ionic and Covalent Bonding 1.3 Carbon and the Covalent Bond 1.4 Carbon-Carbon Single Bonds 1.5 Polar Covalent Bonds 1.6 Multiple Covalent Bonds 1.7 Valence 1.8 Isomerism 1.9 Writing Structural Formulas 1.10 Abbreviated Structural Formulas 1.11 Formal Charge 1.12 Resonance 1.13 Arrow Formalism 1.14 The Orbital View of Bonding; the Sigma Bond 1.15 Carbon sp<sup>3</sup> Hybrid Orbitals 1.16 Tetrahedral Carbon; the Bonding in Methane 1.17 Classification According to Molecular Framework 1.18 Classification According to Functional Group 2. Alkanes and Cycloalkanes: Conformational and Geometric Isomerism 2.1 The Structures of Alkanes 2.2 Nomenclature of Organic Compounds 2.3 IUPAC Rules for Naming Alkanes 2.4 Alkyl and Halogen Substituents 2.5 Use of the IUPAC Rules 2.6 Sources of Alkanes A Closer Look At.Natural Gas 2.7 Physical Properties of Alkanes and Nonbonding Intermolecular Interactions A Closer Look At.Hydrogen Bonding 2.8 Conformations of Alkanes 2.9 Cycloalkane Nomenclature and Conformation 2.10 Cis-trans Isomerism in Cycloalkanes 2.11 Summary of Isomerism A Word About: Isomers, Possible and Impossible 2.12 Reactions of Alkanes...



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