#### 图书基本信息

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- 作者:A.Miller
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#### 内容概要

In revising this text for the second edition, a major goal was to make the book more user-friendly for both graduate and undergraduate students. Introductory material has been fleshed out. Headings have been added to make it easier to locate topics. The structures have been redrawn throughout, with added emphasis on the stereochemical aspects of reaction mechanisms. Coverage of some topics such as solvent effects and neighboring group effects has been expanded, and Chapter 6 has been completely reorganized and extensively rewritten.

### 书籍目录

Preface to the Second EditionPreface to First Edition1 Introduction—Molecular Structure and Reactivity 1. How to Write Lewis Structures and Calculate Formal Charges 2. Representations of Organic Compounds 3. Geometry and Hybridization 4. Electronegativities and Dipoles 5. Resonance Structures 6. Aromaticity and Antiaromaticity 7. Tautomers and Equilibrium 8. Acidity and Basicity 9. Nucleophiles and Electrophiles2 General Principles for Writing Reaction Mechanisms 1. Balancing Equations 2. Using Arrows to Show Moving Electrons 3. Mechanisms in Acidic and Basic Media 4. Electron-Rich Species: Bases or Nucleophiles? 5. Trimolecular Steps 6. Stability of Intermediates 7. Driving Forces for Reactions 8. Structural Relationships between Starting Materials and Products 9. Solvent Effects 10. A Last Word3 Reactions of Nucleophiles and Bases 1. Nucleophilic Substitution 2. Eliminations at Saturated Carbon ......4 Reactions Involving Acids and Other Electrophiles5 Radicals and Radical Anions6 Pericyclic Reactions7 Additional ProblemsAppendix A Lewis Structures of Common Functional GroupsAppendix B Symbols and Abbreviations Used in Chemical NotationAppendix C Relative Acidities of Common Organic and Inorganic SubstancesIndex

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