



## Arrow-Pushing in Organic Chemistry: An Easy Approach to Understanding Reaction Mechanisms

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Wiley-Interscience, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.Acknowledgments.About the Author.Chapter 1 Introduction.1.1 Definition of Arrow Pushing.1.2 Functional Groups.1.3 Nucleophiles and Leaving Groups.1.4 Summary.Problems.Chapter 2 Acids.2.1 What are Acids?2.2 What is Resonance?2.3 How is Acidity Measured?2.4 Relative Acidities.2.5 Inductive Effects.2.6 Inductive Effects and Relative Acidities.2.7 Relative Acidities of Hydrocarbons.2.8 Summary. Problems. Chapter 3 - Bases and Nucleophiles. 3.1 What are bases? 3.2 What are nucleophiles? 3.3 Leaving Groups.3.4 Summary.Problems.Chapter 4 - S N 2 Substitution Reactions.4.1 What is an S N 2 Reaction?4.2 What are Leaving Groups?4.3 Where can S N 2 Reactions Occur?4.4 S N 2' Reactions.4.5 Summary.Problems.Chapter 5 S N 1 Substitution Reactions.5.1 What is an S N 1 Reaction?5.2 How are S N 1 Reactions Initiated?5.3 The Carbocation.5.4 Carbocation Rearrangements.5.5 Summary.Problems.Chapter 6. Elimination Reactions.6.1 E1 Eliminations.6.2 E2 Eliminations.6.3 How do Elimination Reactions Work?6.4 Summary.Problems.Chapter 7 - Addition Reactions.7.1 Addition of Halogens to Double Bonds.7.2 Markovnikov's Rule.7.3 Additions to Carbonyls.7.4 Summary.Problems.Chapter 8-Moving Forward8.1 Functional Group Manipulations.8.2 Name Reactions.8.3 Reagents.8.4 Final Comments.Problems.Appendix 1-pK a Values of Protons Associated with Common Functional

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