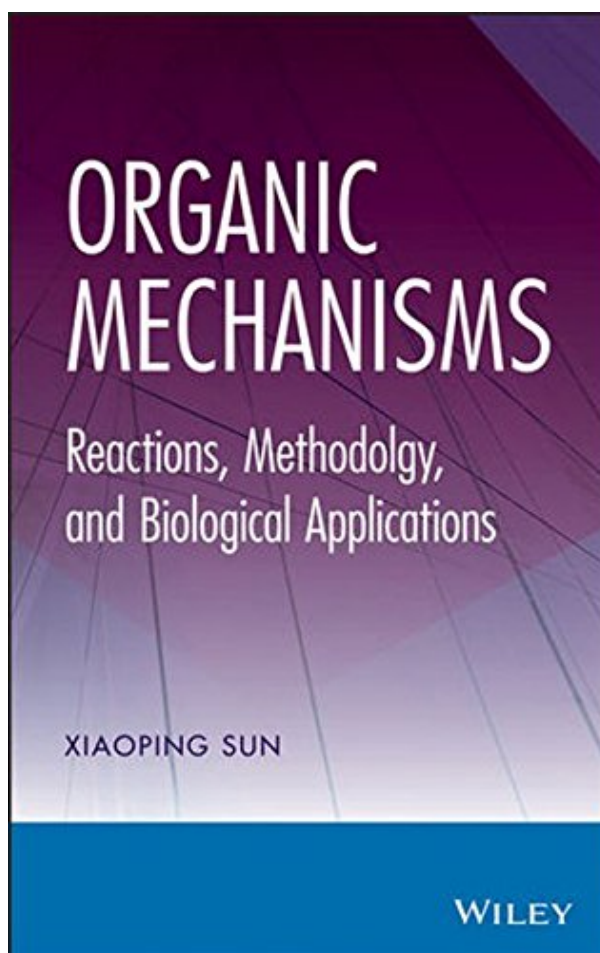
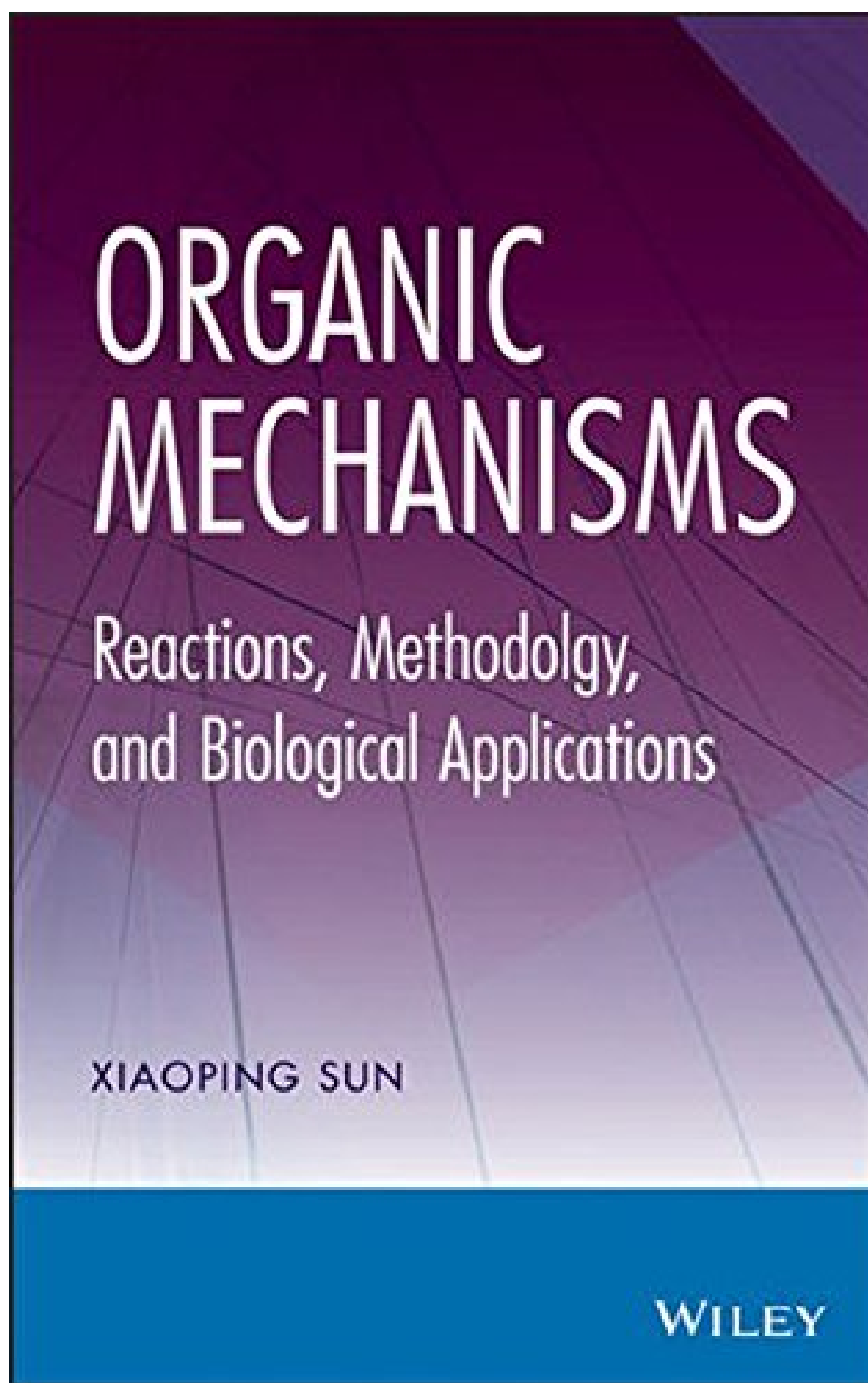


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"Summing Up: Recommended. Highly recommended. Upper-division undergraduates and above."  
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## About the Author

XIAOPING SUN, PhD, is Professor of Chemistry at the University of Charleston. Dr. Sun has more than ten years of experience teaching advanced organic chemistry and biochemistry. His research focuses on studying the mechanisms of chemical reactions. Dr. Sun is the recipient of a research grant from the National Science Foundation.

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- Functionalization of the alkene C=C bond by cycloaddition reactions
- Nucleophilic substitutions on sp<sup>3</sup>-hybridized carbons
- Nucleophilic additions and substitutions on carbonyl groups
- Reactivity of the  $\alpha$ -hydrogen to carbonyl groups
- Rearrangements

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