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March's Advanced Organic Chemistry:

Reactions, Mechanisms, and Structure, 9th Edition

by Michael B. Smith

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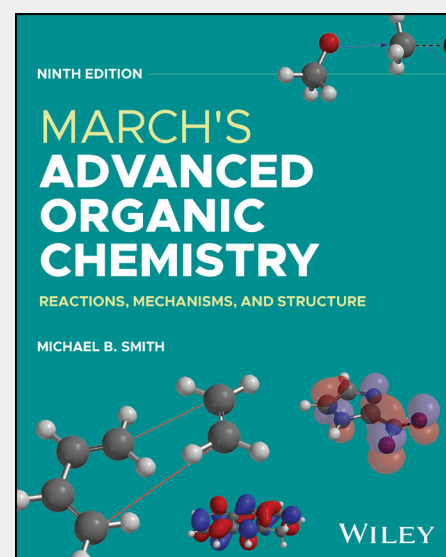
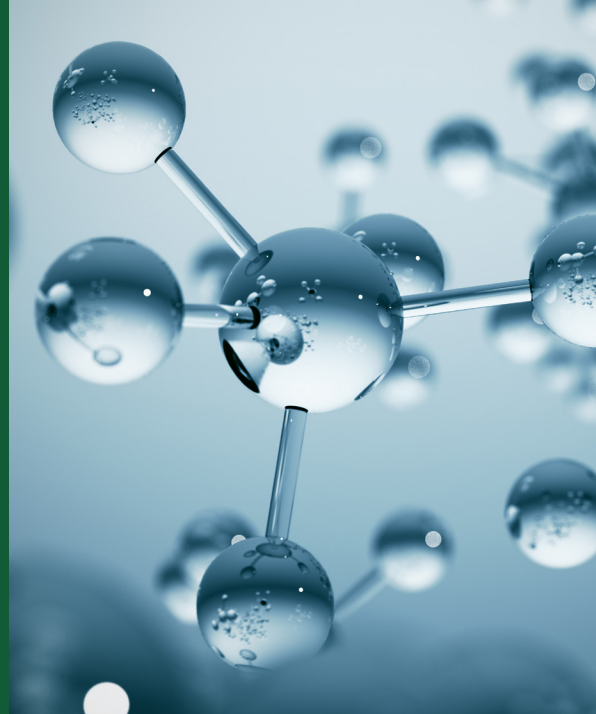
Covering new advancements in the field from 2018 to 2023, this updated edition remains a comprehensive guide to the core pillars of organic chemistry: reactions, mechanisms, and structure. Designed for both students and practicing chemists, it presents detailed examples, reaction pathways, and mechanistic insights for planning multi-step syntheses.

New to this edition

- Fully updated content reflecting the latest literature (2018–2023)
- Expanded coverage of microwave chemistry, ultrasound, mechanochemistry, and flow reactions
- Enhanced integration of specialized topics—such as terpenes, steroids, and polymers—into core chapters
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Key topics include:

- Localized and delocalized bonding, including non-covalent interactions
- Stereochemistry, irradiation, and reaction intermediates
- Carbocations, carbanions, free radicals, carbenes, and nitrenes
- Substitution, addition, elimination, rearrangement, oxidation, and reduction reactions
- Reaction mechanisms and structure-reactivity relationships



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Michael B. Smith, PhD, is Professor Emeritus in the Department of Chemistry at the University of Connecticut. He is a coauthor of the fifth through eighth editions of *March's Advanced Organic Chemistry* and the author of Volumes 6 - 13 of the *Compendium of Organic Synthetic Methods*, as well as several other monographs and textbooks.



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