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Organic Chemistry: Structure, Mechanism, and Synthesis

Robert J. Ouellette, J. David Rawn

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There are no shortcuts in organic chemistry. Understanding and mastery cannot be achieved without devoting adequate time and attention to the theories and concepts of the discipline. It is with this premise that Ouellette and Rawn set out to comprehensively survey the field in *Organic Chemistry*, with an emphasis on connecting the basic principles of organic chemistry to real world challenges that require analysis, not just recall.

Organic chemistry is at the interface of physical and biological science, and this new text lays out the basic principles of organic chemistry in their relation to a host of other fields in both physical and biological sciences. Chemical bonding determines molecular structure, which in turn dictates physical, chemical, and biological properties from the smallest molecules to the largest. Molecular structure determines reaction mechanisms, from the smallest to the largest molecules. Reaction mechanisms determine strategies for organic synthesis, and these synthetic principles extend to every aspect of synthesis, from drug design to the methods cells employ to synthesize the molecules of which they are made. These relationships form a continuous narrative throughout the book, wherein principles logically evolve from one to the next, from the simplest to the most complex examples, with abundant connections between the text and real world applications.

- Contains extensive examples of biological relevance
- Includes an important chapter on organometallic chemistry not found in other standard references
- Extended, illustrated glossary
- Appendices on thermodynamics, kinetics, and transition state theory

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