



# General, Organic and Biological Chemistry

*H. Stephen Stoker*

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This text, aimed at nursing and other allied health majors, boasts a clear, comprehensible writing style and a pedagogical approach that is easy to apply and use. The early chapters of the text focus on fundamental chemical principles. Later chapters, built on the foundation of these basic principles, develop the concepts and applications central to the fields of organic chemistry and biochemistry.

The development of chemical topics always starts at the ground level. Complicated mathematics is minimized and used only when it helps clarify a topic. The text's pedagogy is supported by strong graphics, features that help students learn and retain material, and rich problem sets.

- *New!* The web site features a student math review that covers the prerequisite mathematics relevant to this course.
- *New!* The HM ClassPrep CD-ROM features everything an instructor needs to develop lectures. This cross-platform CD includes PowerPoint slides with all text figures, tables, and virtually all photos; Animations and simulations from the Hart, *Organic Chemistry*, 11/e and Zumdahl, *General Chemistry*, 6/e CD-ROMs; "Chemistry at a Glance" sections; The Instructor's Resource Manual in PDF format; Word files of the printed Test Bank
- *New!* The text's art program has been thoroughly revised to help students better visualize the molecular world. The text includes many space-filling models that more closely match what students see in multimedia resources. Reactions are conveniently color-coded in the organic chapters.
- *New!* Every chapter now includes new "Additional Problems," giving current users a fresh selection and expanding the range of difficulty in this popular problem category.
- *New!* Additional "Chemistry at a Glance" sections provide brief visual summaries of core chapter concepts to help students visualize difficult material.
- *New!* Additional "Chemical Connections" boxes show chemistry as it relates to everyday life, highlighting its relevance to careers in the health and environmental fields.
- *New!* The author reviewed and improved coverage of the following topics to make the new edition as current as possible: Solubility of solutes in water; Chemical effects of radiation; Oxidation and reduction as applied to organic molecules; Dietary considerations and carbohydrates; Dietary considerations and fats and oils; Classification of lipids in terms of function; Classification of proteins in terms of structural characteristics; Functions for vitamins; Protein synthesis and human genome project results; Genetic engineering; Oxidative phosphorylation and ATP production
- Chapter outlines give students a road map of what is covered in each chapter.
- In-text worked-out examples walk students through the thought process involved in problem solving. A "Practice Exercise" follows each example to reinforce concepts.
- "Margin Notes" provide tips for remembering and distinguishing between concepts, highlight links across chapters, and present interesting historical background.
- "Defined Terms" are highlighted in the text when they are first presented, using boldface and italic type. Each definition appears in a complete sentence so students are never forced to deduce a definition from context.
- A glossary offers definitions of all key terms in the index.

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