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Fundamentals of Heterocyclic Chemistry: Importance in Nature and in the Synthesis of Pharmaceuticals

By Louis D. Quin, John A. Tyrell



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- Heterocyclic chemistry is of prime importance as a sub-discipline of Organic Chemistry, as millions of heterocyclic compounds are known with more being synthesized regularly
- Introduces students to heterocyclic chemistry and synthesis with practical examples of applied methodology
- Emphasizes natural product and pharmaceutical applications
- Provides graduate students and researchers in the pharmaceutical and related sciences with a background in the field
- Includes problem sets with several chapters



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Editorial Review

Review

"Provides graduate students and researchers in the pharmaceutical and related sciences with a background in the field." (Trading Charts, 22 February 2011)

From the Back Cover

Filled with practical examples illustrating key concepts and applications

Based on popular courses taught by the two authors, *Fundamentals of Heterocyclic Chemistry* enables students to master the basics of heterocyclic chemistry and synthesis. The text features detailed examples throughout and a clear, straightforward approach, making it easy to grasp a vast, complex field. Moreover, with its emphasis on the biological uses of heterocyclic compounds, the text enables students to learn a variety of practical applications in natural products and pharmaceutical research.

Following an introduction to basic nomenclature, *Fundamentals of Heterocyclic Chemistry* explores the importance of heterocycles in nature and in synthetic pharmaceuticals. Next, synthetic methods are introduced with detailed descriptions of specific reactions used to construct heterocycles. The authors have provided a brief review of each reaction presented.

The text moves on to explore special properties of various aromatic heterocyclic systems. Next, the authors explain the synthesis of some important families of heterocycles, using plenty of examples for illustration, mostly from the field of pharmaceuticals. The final chapter covers saturated heterocycles, with an emphasis on stereochemical properties.

This text is ideal for undergraduate and graduate students in organic chemistry as well as pharmaceutical and medicinal chemistry. Most of the chapters include problem sets, enabling students to test and build their knowledge of key concepts by applying principles of heterocyclic chemistry to solve real problems.

About the Author

LOUIS D. QUIN, PhD, is an Adjunct Professor at the University of North Carolina Wilmington. Dr. Quin began his academic career in 1956 with the Department of Chemistry at Duke University, serving as department chairman from 1970 to 1976. After retiring from Duke, he went to the University of Massachusetts Amherst to head up its Chemistry Department, retiring in 1996. Dr. Quin has written 250 research papers and written or co-edited eight books on the subject of organophosphorus chemistry.

JOHN A. TYRELL, PhD, is Visiting Scientist in the Department of Chemistry and Bio-chemistry at the University of North Carolina Wilmington, where he teaches Fundamentals of Heterocyclic Chemistry among other courses. Dr. Tyrell holds sixty-eight patents and has more than twenty years of industrial research experience, much of it focused on heterocyclic chemistry research at Lederle Laboratories, General Electric Plastics, and OxyChem.

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