DESCRIPTION

A unique approach to a core topic in organic chemistry presented by an experienced teacher to students and professionals

Heterocyclic rings are present in the majority of known natural products, contributing to enormous structural diversity. In addition, they often possess significant biological activity. Medicinal chemists have embraced this last property in designing most of the small molecule drugs in use today. This book offers readers a fundamental understanding of the basics of heterocyclic chemistry and their occurrence in natural products such as amino acids, DNA, vitamins, and antibiotics. Based on class lectures that the author has developed over more than 40 years of teaching, it focuses on the chemistry of such heterocyclic substances and how they differ from carbocyclic systems.

*Introductory Heterocyclic Chemistry* offers in-depth chapters covering naturally occurring heterocycles; properties of aromatic heterocycles; #-deficient heterocycles; #-excessive heterocycles; and ring transformations of heterocycles. It then offers an overview of 1,3-dipolar cycloadditions before finishing up with a back-to-basics section on nitriles and amidines.

- Presents a conversational approach to a fundamental topic in organic chemistry teaching
- Offers a unique look at this core organic chemistry topic via important naturally occurring and/or biologically active heterocycles
- Based on the author's many years of class lectures for teaching at the undergraduate and graduate level as well as pharmaceutical-industry courses
• Clear, concise, and accessible for advanced students of chemistry to gain a fundamental understanding of the basics of heterocyclic chemistry

*Introductory Heterocyclic Chemistry* is an excellent text for undergraduate and graduate students as well as chemists in industrial environments in chemistry, pharmacy, medicinal chemistry, and biology.

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**ABOUT THE AUTHOR**

**PETER A. JACOBI, PHD**, received his B.S. degree in Chemistry from the University of New Hampshire (1967), and his Ph.D. in Organic Chemistry from Princeton University (1973). After two years at Harvard as a postdoctoral fellow, he joined the faculty of Wesleyan University (1975). In the fall of 1997 he moved from Wesleyan to Dartmouth, where in 2004 he was appointed the New Hampshire Professor of Chemistry, a position he held until 2013. Dr. Jacobi is the recipient of numerous awards including the American Cyanamid Company Award for "Advancement of the Art and Science of Synthesis" (1985); the Connecticut Valley ACS Award for "Outstanding Contributions to Chemistry" (1988); and the Caleb T. Winchester Award for "Excellence as a Scholar-Teacher" (1996). In 2010 he was elected as a Fellow of the American Chemical Society. He is the author of nearly 100 publications in the general area of heterocyclic chemistry, in particular as applied to natural product synthesis.

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