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Basic Concepts in Medicinal Chemistry

By Mark W. Harrold, Robin M. Zavod

American Society of Health-System Pharmacists, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm.

Language: English . Brand New Book. Medicinal chemistry is a complex topic. Written in an easy to follow and conversational style, Basic Concepts in Medicinal Chemistry focuses on the fundamental concepts that govern the discipline of medicinal chemistry as well as how and why these concepts are essential to therapeutic decisions. The book emphasizes functional group analysis and the basics of drug structure evaluation. In a systematic fashion, learn how to identify and evaluate the functional groups that comprise the structure of a drug molecule and their influences on solubility, absorption, acid/base character, binding interactions, and stereochemical orientation. Relevant Phase I and Phase II metabolic transformations are also discussed for each functional group. Key features include: Discussions on the roles and characteristics of organic functional groups, including the identification of acidic and basic functional groups; How to solve problems involving pH, pKa, and ionization; salts and solubility; drug binding interactions; stereochemistry; and drug metabolism; Numerous examples and expanded discussions for complex concepts; Therapeutic examples that link the importance of medicinal chemistry to pharmacy and healthcare practice; An overview of structure activity relationships (SARs) and...



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