



Modern Physical Organic Chemistry

By Anslyn, Eric V. / Dougherty, Dennis A.

Condition: New. Publisher/Verlag: Macmillan Education | This modern textbook makes explicit the many connections between physical organic chemistry and critical fields such as organometallic chemistry, materials chemistry, bioorganic chemistry, and biochemistry. In the latter part of the twentieth century, the field of physical organic chemistry went through dramatic changes, with an increased emphasis on noncovalent interactions and their roles in molecular recognition, supramolecular chemistry, and biology; the development of new materials with novel structural features; and the use of computational methods. Contemporary chemists must be just as familiar with these newer fields as with the more established classical topics. Modern Physical Organic Chemistry is intended to bridge that gap. In addition to covering thoroughly the core areas of physical organic chemistry - structure and mechanism - the book will escort the practitioner of organic chemistry into a field that has been thoroughly updated. The foundations and applicabilities of modern computational methods are also developed. | Introduction to Structure and Models of Bonding.- Strain and Stability.- The Thermodynamics of Solutions and Noncovalent Binding Forces.- Molecular Recognition and Supramolecular Chemistry.- Acid-Base Chemistry.- Stereochemistry.- Energy Surfaces and Kinetic Analyses.- Experiments Related to Thermodynamics and Kinetics.- Catalysis.- Organic Reaction Mechanisms Part 1: Reactions Involving Additions...



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