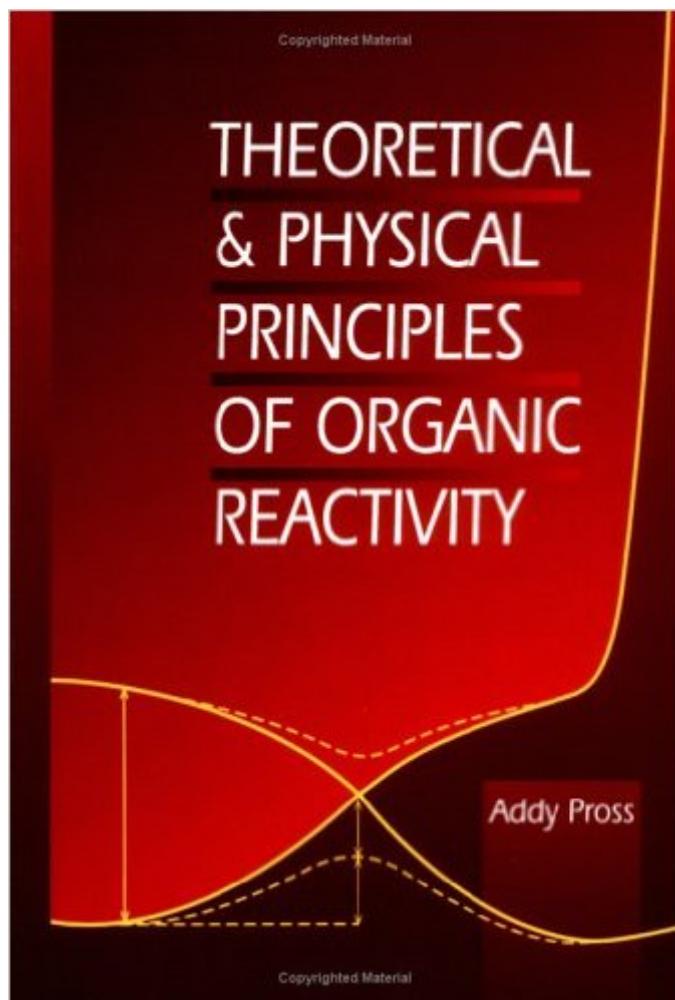


The book was found

Theoretical And Physical Principles Of Organic Reactivity



Synopsis

Traditionally, physical organic chemistry and theoretical organic chemistry have been treated as separate disciplines. This new book bridges these two areas in order to give the reader a new perspective on the nature of organic reactivity. A key element of this new approach is the author's extensive nonmathematical description of the recently developed curve-crossing model that describes why chemical reactions have an activation barrier, and specifies the factors that govern the barrier heights. In addition, the author draws from physical chemistry and transition-metal chemistry to present an original and detailed description of electron transfer theory, and covers the recent discovery that the electron transfer process is intimately related to many basic organic processes. This book has been divided into three parts to facilitate its mixture of classical organic chemistry with new and established theoretical ideas. Part A presents an introductory description of molecular orbital and valence bond theories with emphasis on the qualitative aspects that can be applied to practical problems in organic structure and reactivity. Part B describes the key principles of physical organic chemistry and incorporates a mainly qualitative description of the Marcus theory of electron transfer. Building on the theoretical framework developed in parts A and B, part C offers an overview of the basic reactions of organic chemistry: nucleophilic and electrophilic substitution, and radical and pericyclic reactivity. In addition, part C clearly explains the most recent unifying description of organic reactivity for organic chemists and for graduate and advanced undergraduate students.

Book Information

Hardcover: 312 pages

Publisher: Wiley-Interscience; 1 edition (September 1995)

Language: English

ISBN-10: 0471555991

ISBN-13: 978-0471555995

Product Dimensions: 6.4 x 0.8 x 9.5 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 starsÂ See all reviewsÂ (1 customer review)

Best Sellers Rank: #3,290,938 in Books (See Top 100 in Books) #33 inÂ Books > Science & Math > Chemistry > Organic > Reactions #2326 inÂ Books > Science & Math > Chemistry > Physical & Theoretical #8136 inÂ Books > Textbooks > Science & Mathematics > Chemistry

Customer Reviews

i do not have any comment except everything was perfect.

[Download to continue reading...](#)

Theoretical and Physical Principles of Organic Reactivity Philosophical And Theoretical Perspectives For Advanced Nursing Practice (Cody, Philosophical and Theoretical Perspectives for Advances Nursing Practice) The Nature of Theoretical Thinking in Nursing: Third Edition (Kim, The Nature of Theoretical Thinking in Nursing) Quantum Mechanics: The Theoretical Minimum (Theoretical Minimum, The) Inorganic Chemistry: Principles of Structure and Reactivity (4th Edition) Ace Organic Chemistry I: The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) Organic Body Care Recipes Box Set: Organic Body Scrubs, Organic Lip Balms, Organic Body Butter, And Natural Skin Care Recipes Physical Kinetics: Volume 10 (Course of Theoretical Physics S) Chemical Structure and Reactivity: An Integrated Approach Biological Inorganic Chemistry: Structure and Reactivity Chemistry and Chemical Reactivity, Volume 1 (with General ChemistryNOW) Guidelines for Chemical Reactivity Evaluation and Application to Process Design Contemporary Theory of Chemical Isomerism (Understanding Chemical Reactivity) Physical Pharmacy: Physical Chemical Principles in the Pharmaceutical Sciences Organic Homemade Lotion Recipes - For All Skin Types (The Best Lotion DIY Recipes): Lotion Making For Beginners (organic lawn care manual, organic skin care, beauty and the beast) The Complete Works of Herbert Spencer: The Principles of Psychology, The Principles of Philosophy, First Principles and More (6 Books With Active Table of Contents) Zitelli and Davis' Atlas of Pediatric Physical Diagnosis: Expert Consult - Online and Print, 6e (Zitelli, Atlas of Pediatric Physical Diagnosis) Bates' Guide to Physical Examination and History-Taking (Bates Guide to Physical Examination and History Taking) Bates' Guide to Physical Examination and History-Taking 11th Edition TestBank: Test Bank with Rationales for the book Bates' Guide to Physical Examination and History-Taking Textbook of Physical Diagnosis: History and Examination With STUDENT CONSULT Online Access, 7e (Textbook of Physical Diagnosis (Swartz))

[Dmca](#)