reactions of alkenes

most common rans of double bonds transform tregiochemistry to rientation (what part of Pi bond - sigma bond

"bc sigma bonds are more stable

tupes of rxns:

haddition - 2 moiec combine to form 1 product molec; most common

ea the rxns in this chapter

belimination-1 movec splits into 2

fragment morec

substitution - 1 fragment replaces another fragment in a molec

LECTROPHILIC ADDITION TO ALKENES

er in pi bonds are loosely held (delocalized above · below sigma bond)

double bond acts as Nuc. attacking &+ "Et has an affinity toward these emost of these rxns have carbocations as

intermediates

electrophilic additions - E' bonds to one of the double-bonded C's first, followed bu the Nuc

regioselectivity & stereochemistry of rxn when its stereospecific important

MECHANISM 8-1: LECTROPHILIC ADDITION TO ALKENES

<u>depd:</u> Attack of pi bond on € + Forms or bocation

-"+" charge on more substituted C tep 2: A++ ack by Nuc gives product

-c-c-+ Nuc. - - -c-c-

SUBSTITUTED C=C

how substituted a congin is = how many - stereochemistry random

Cs are attached to C=C example:

monosubstituted disubstituted

REGIOSELECTIVIT

CH - C = CH - CHa -

reagent adds to which end of an unsymmetrical alkene) of addition

-Markovníkov's rule-in an electrophilic addition to an alcene, the Et adds in such a way to produce the most stable intermediate (ea.corbocation) (extended rule)

Saddition of a proton acid to C=C results in a product w/ proton acid bonded to C atom w/ greater # or H atoms (least sub.)

GEXAS that follow this rule follow Marrovaitor arientation • give Markovnikov product

-anti-Markovnikov orientation - follow the loop of Markovnikov's rule; give the anti-Markovn CONSTRUCT

MECHANISM 8-2 IGNIC ADDITION OF HX TO AN ALKENE

Step 1: Protonation of pi bond forms a compodation

5" + " on more sub. C

Step 2: Attack by halide gives product

Characteristics

- Follows Markovnikovs rule

-natogen usually goes on most sub C

-rearrangements may occur

- Formation of carbocation is rate-determining

Organic Chemistry Notes For Ss

John Hunter (of Uxbridge.)

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Progress in Physical Organic Chemistry Robert W. Taft, 2009-09-17 Progress in Physical Organic Chemistry is dedicated to reviewing the latest investigations into organic chemistry that use quantitative and mathematical methods These reviews help readers understand the importance of individual discoveries and what they mean to the field as a whole Moreover the authors leading experts in their fields offer unique and thought provoking perspectives on the current state of the science and its future directions With so many new findings published in a broad range of journals Progress in Physical Organic Chemistry fills the need for a central resource that presents analyzes and contextualizes the major advances in the field The articles published in Progress in Physical Organic Chemistry are not only of interest to scientists working in physical organic chemistry but also scientists working in the many subdisciplines of chemistry in which physical organic chemistry approaches are now applied such as biochemistry pharmaceutical chemistry and materials and polymer science Among the topics explored in this series are reaction mechanisms reactive intermediates combinatorial strategies novel structures spectroscopy chemistry at interfaces stereochemistry conformational analysis quantum chemical studies structure reactivity relationships solvent isotope and solid state effects long lived charged sextet or open shell species magnetic non linear optical and conducting molecules and molecular recognition **New Theoretical Concepts for Understanding** Organic Reactions Juan Bertrán, Imre G. Csizmadia, 2012-12-06 People who attended the NATO Advanced Study Institute ASI entitled NEW THEORETICAL CONCEPTS FOR UNDERSTANDING ORGANIC REAC TIONS held at Sant Feliu de Gufxols on the Costa Brava of Spain had a unique experience They have seen the evolution of the field from qualitative arguments through the generation of Potential Energy Surfaces PES to the use of PES in molecular dynamics The excellent lectures that were dedicated to the various aspects of Potential Energy Surfaces clearly revealed a colossal amount of ma terial that represents our current understanding of the overall problem It is our hope that the present volume will recreate the excitement in the readers that we all experienced during the meeting in Spain One can say without too much exaggeration that chemistry has become and exercise on potential energy surfaces PES Structural position of the energy minima spectroscopic vicinity around the minima and reactivity reaction path along the surface properties may be determined from the analysis of PES New theoretical tools together with recent developments in computer technology and programming have allowed to obtain a better knowledge of these surfaces and to extract further chemical information from them so new horizons have been added to Theoretical Organic Chemistry Advances in Quantum Chemistry, 1995-07-19 Advances in Quantum Chemistry publishes surveys of current developments in the rapidly developing field of quantum chemistry a field that falls between the historically established areas of mathematics physics chemistry and biology With invited reviews written by leading international researchers each presenting new results and insights this quality serial provides a single vehicle for following progress in this interdisciplinary area Theoretical and Computational Models for Organic Chemistry

S.J. Formosinho, Imre G. Csizmadia, Luis G. Arnaut, 2012-12-06 The papers in this volume were presented at the NATO Advanced Study Institute held in Porto Novo Portugal August 26 September 8 1990 The Institute has been able to cover a wide spectrum of the Theoretical and Computational Models for organic molecules and organic reactions ranging from the ab initio to the more empirical approaches in the tradition established in the previous Institutes at S Feliu de Guixols Spain and Altinoluk Turkey The continuity with this work was achieved by inviting half of the lecturers present in those meetings But other important subjects were also covered at Porto Novo by new lecturers both from universities and the industry Molecular Mechanics Protein Structure and Unidimensional Models were introduced by the first time The concept of building on the expertise already acquired and available both in terms of methods and contents to develop in new directions was appreciated by participants and lecturers The Institute first considered the fundamentals of molecular orbital computations and ab initio methods and the construction of Potential Energy Surfaces These subjects were further explored in several applications related with optimization of equilibrium geometries and transition structures Practical examples were studied in Tutorial sessions and solved in the computational projects making use of the Gaussian 88 and Gaussian 90 programs Empirical models can be complementary to the quantum mechanical ones in equilibrium geometry optimizations Chemistry: Organic chemistry. Pt. II. has imprint: New York, John Wiley & son, 1873. 3d London ed. with additions William Allen Miller, 1857 **Notes on Organic Chemistry** Francis Francis, 1935 **Essentials of Organic Chemistry** Paul M. Dewick, 2006-05-26 Essentials of Organic Chemistry is an accessible introduction to the subject for students of Pharmacy Medicinal Chemistry and Biological Chemistry Designed to provide a thorough grounding in fundamental chemical principles the book focuses on key elements of organic chemistry and carefully chosen material is illustrated with the extensive use of pharmaceutical and biochemical examples In order to establish links and similarities the book places prominence on principles and deductive reasoning with cross referencing This informal text also places the main emphasis on understanding and predicting reactivity rather than synthetic methodology as well as utilising a mechanism based layout and featuring annotated schemes to reduce the need for textual explanations tailored specifically to the needs of students of Pharmacy Medical Chemistry and Biological Chemistry numerous pharmaceutical and biochemical examples mechanism based layout focus on principles and deductive reasoning This will be an invaluable reference for students of Advances in Physical Organic Chemistry ,1988-03-16 This is a well Pharmacy Medicinal and Biological Chemistry established series for the publication of authoritative reviews on the methods and results of the application of quantitative physical and mathematical methods to organic chemistry. The authors are acknowledged experts in their particular fields and the contributions give the reader an up to date account of different aspects of physical organic chemistry In the pursuit of challenging problems of organic chemistry the series encourages forward looking reviews on a variety of topics not all of which may as yet conform to conventional notions of the scope of the field The Art of Problem Solving in Organic

Chemistry Miguel E. Alonso-Amelot, 2023-09-13 The Art of Problem Solving in Organic Chemistry The new edition of the classic textbook that has helped thousands of students understand and solve the complex mechanistic problems posed by organic reactions The Art of Problem Solving in Organic Chemistry is a must have workbook for students and professionals alike offering step by step guidance on applying proven strategies and logical techniques to solve complex reaction mechanism problems The book is organized in two sections The Toolbox and the Problem Chest The first part is presented in four chapters covering advanced contemporary issues of molecular structure and orbital configuration stereoelectronic constraints electron shifts redeployment and arrow pushing allowances and pitfalls as well as functional groups roles and key intermediate species all of which dominate the reaction mechanism scenario These concepts are rounded up by a series of time tested problem analysis strategies and thinking routes shown in flowcharts and illustrated by application to specific cases The Problem Chest puts together a set of 50 newly selected fully discussed mechanism problems of increasing difficulty in which all the power of the Toolbox paraphernalia is put to work Now in its third edition The Art of Problem Solving in Organic Chemistry retains the structure of previous editions previously rated among the 30 best organic chemistry books of all time by BookAuthority More than 50 revised organic reaction mechanism problems are complemented by an entirely new set of problems additional concepts and techniques expanded coverage of applications in contemporary organic chemistry embedded cases of the existing reaction pool taken from recent literature and much more Describes the principles methods tools and problem analysis techniques required to solve organic reaction problems Extends the logic and strategy of the mechanistic approach beyond specific reactions and facts Discusses practical methods for improved problem solving for organic reaction mechanisms Explains tested strategies for analyzing the possibilities of reaction mechanisms between reactants and products Contains detailed appendices with definitions and examples of principles reactions mechanisms and reagents The Art of Problem Solving in Organic Chemistry Third Edition is an essential volume for advanced undergraduates graduate students lecturers and professionals looking to improve their performance in finding solutions to organic reaction problems It is an ideal textbook for courses on organic reactions and problem analysis as well as an excellent supplement for courses covering reactive intermediates and mechanisms of molecular transformations **BIOS Instant Notes in** Inorganic Chemistry Tony Cox, 2004-01-01 Instant Notes in Inorganic Chemistry second edition has been fully updated and new material added on developments in noble gas chemistry and the synthesis reactions and characterization of inorganic compounds New chapters cover the classification of inorganic reaction types concentrating on those useful in synthesis techniques used in characterizing compounds including elemental analysis spectroscopic methods IR NMR and structure determination by X ray crystallography and the factors involved in choosing appropriate solvents for synthetic reactions The new edition continues to provide concise coverage of inorganic chemistry at an undergraduate level offering easy access to **First Easy Greek** all important areas of inorganic chemistry in a format which is ideal for learning and rapid revision

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