

Organic Reaction Mechanisms William C Groutas

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over the last three decades the importance of organosilicon chemistry has greatly increased because it has opened a number of new synthetic strategies silicon reagents are usually low cost versatile and allow a wide range of reactions this is the first handbook to compile essential silicon containing reagents and make use of the leading reagent database Eros another hot volume in the series handbooks of reagents for organic synthesis this is a must have resource for all synthetic chemists working in drug development and medicinal chemistry for the selection the editor focussed on three key synthetic approaches with the greatest impact 1 use of silicon as a temporary tether by unifying a reactive pair of functional groups and taking advantage of their template biased intramolecular cyclization 2 the specific use of the silane functionality as a hetero t-butyl group often colloquially referred to as the use of silicon as a fat proton 3 the use of the Brook rearrangement as an anion relay stratagem a new feature in this handbook is the reagent finder an alphabetically organized lookup table arranged by organic functionality and specific structure of the silicon atom to which it is bound

aus dem bestehenden material der encyclopedia of reagents for organic synthesis Eros werden paquette und die herausgeber 500 bevorzugte reagenzien auswählen die dann in 4 bände entsprechend ihrer klassifikation eingeteilt werden z.B. oxidations und reduktionsreagenzien die endgültigen titel der bände werden festgelegt sobald die auswahl der 500 reagenzien vorgenommen wurde jeder band wird sich in umfang und struktur an Eros orientieren d.h. er verfügt über eine einleitung die ausgewählten reagenzien erscheinen in alphabetischer reihenfolge und es gibt jeweils einen index zu reagenzien autoren und themenkomplexen für jedes reagenz werden die physikalischen und chemischen daten detailliert angegeben so daß der leser den gebrauch der jeweiligen reagenz versteht und sicher mit ihr arbeiten kann

faculties publications and doctoral theses in departments or divisions of chemistry chemical engineering biochemistry and pharmaceutical and or medicinal chemistry at universities in the united states and canada

this fully updated new edition presents organic reaction mechanism questions carefully selected from the primary chemical literature to understand how reactants are transformed into products the author explains step by step solutions to all problems with appropriate contextual comments explaining the rationale and reasoning underlying each step and identifying the underlying principles involved in each question in the process the reader gains a better understanding of the fundamental principles of organic chemistry and how to become proficient in using the lewis acid lewis base concept to complete organic reactions without resorting to memorization features the questions are graded in difficulty with part a containing questions aimed at students taking the sophomore level organic chemistry class while part b contains questions of somewhat greater difficulty suitable for students taking an honors course in organic chemistry or a beginning

graduate course detailed answers are provided to all questions so students can check their answers and important points are highlighted in each answer special emphasis has been placed on the selection of questions to ensure that each question illustrates one or more fundamental principles of organic chemistry interspersed throughout the book are minireviews that cover the material pertaining to a particular topic the specific literature references corresponding to each question are included and students can look up those references for more contextual information includes a large number of carefully selected mechanism questions and step by step solutions including explanatory comments

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