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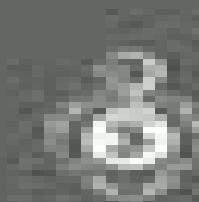
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Synthetic Applications

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# Stereoselective Synthesis Lectures Honouring Rudolf Wiechert

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## **Stereoselective Synthesis Lectures Honouring Rudolf Wiechert:**

*Stereoselective Synthesis* Eckhard Ottow,Klaus Schöllkopf,Bernd-Günter Schulz,2012-12-06 Devising methods and reagents for stereoselective synthesis is an intellectually demanding venture Six experts on diastereo and enantioselective synthesis contributed their papers to this volume They were presented at a symposium on stereoselective synthesis to honour Professor Dr Dr h c Rudolf Wiechert s achievements in medicinal chemistry research The symposium was organized by the Schering AG on the occasion of Professor Wiechert s 65th birthday     *Principles of Asymmetric Synthesis* Robert E.

Gawley,Jeffrey Aube,2012-07-16 The world is chiral Most of the molecules in it are chiral and asymmetric synthesis is an important means by which enantiopure chiral molecules may be obtained for study and sale The aim of this book is to present a detailed analysis of the factors that govern stereoselectivity in organic reactions     *Principles of Asymmetric Synthesis*

R.E. Gawley,J. Aubé,1996-11-21 The world is chiral Most of the molecules in it are chiral and asymmetric synthesis is an important means by which enantiopure chiral molecules may be obtained for study and sale Using examples from the literature of asymmetric synthesis more than 1300 references the aim of this book is to present a detailed analysis of the factors that govern stereoselectivity in organic reactions It is important to note that the references were each individually checked by the authors to verify relevance to the topics under discussion The study of stereoselectivity has evolved from issues of diastereoselectivity through auxiliary based methods for the synthesis of enantiomerically pure compounds diastereoselectivity followed by separation and auxiliary cleavage to asymmetric catalysis In the latter instance enantiomers not diastereomers are the products and highly selective reactions and modern purification techniques allow preparation in a single step of chiral substances in 99% ee for many reaction types After an explanation of the basic physical organic principles of stereoselectivity the authors provide a detailed annotated glossary of stereochemical terms A chapter on Analytical Methods provides a critical overview of the most common methods for analysis of stereoisomers The authors then follow the tried and true format of grouping the material by reaction type Thus there are four chapters on carbon carbon bond forming reactions enolate alkylations organometal additions to carbonyls aldol and Michael reactions and cycloadditions and rearrangements one chapter on reductions and hydroborations carbon hydrogen bond forming reactions and one on oxidations carbon oxygen and carbon nitrogen bond forming reactions Leading references are provided to natural product synthesis that have been accomplished using a given reaction as a key step In addition to tables of examples that show high selectivity a transition state analysis is presented to explain to the current level of understanding the stereoselectivity of each reaction In one case Cram s rule the evolution of the current theory is detailed from its first tentative 1952 postulate to the current Felkin Anh Heathcock formalism For other reactions only the currently accepted rationale is presented Examination of these rationales also exposes the weaknesses of current theories in that they cannot always explain the experimental observations These shortcomings provide a challenge for future mechanistic investigations

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,1994 **Verzeichnis lieferbarer Bücher ,1999** **Forthcoming Books** Rose Arny,1994-04 **Whitaker's Books in Print ,1998** Stereoselective Synthesis Eckhard Ottow,Klaus Schollkopf,Bernd-Gunter Schulz,1993-12-16 A symposium on stereoselective synthesis was organized by the Schering AG to honour Professor Dr Dr h c Rudolf Wiechert s 65th birthday and his achievements in over 30 years of successful medicinal chemistry research The six plenary lectures by leading scientists are published in this book The contributions highlight recent progress on diastereo and enantioselective synthesis Intriguing methodological work synthesis of homochiral building blocks and elegant and highly efficient applications to the synthesis of stereochemically demanding targetmolecules are presented From the Contents Steroids and Stereochemistry Enantioselective Catalysis with Chiral Metal Complexes New Aspects in Stereoselective Synthesis of Aminoalcohols and Amino Acids Enzymemimetic C C and C N Bond Formations Synthesis of Natural Product of Polyketide Origin An Exemplary Case Progress in the Diels Alder Reaction Means Progress in Steroid Synthesis *Stereoselective Synthesis* Mihály Nógrádi,1994-12-05 Die neuesten Methoden der stereoselektiven Synthese Diese gr ndlich bearbeitete und aktualisierte Neuauflage liefert eine F lle wertvoller Informationen zu Methoden und Reagenzien in der stereoselektiven Synthese Im Vordergrund stehen dabei Reaktionen mit hoher Ausbeute und Selektivit t Wichtige Mechanismen werden kurz vorgestellt die Betonung liegt jedoch stets auf den praktischen Anwendungen Die Neuauflage wurde erweitert um Abschnitte ber homogene diastereoselektive Hydrierungen enantioselektive Oxidationen neue effiziente chirale Auxiliare Ein Gro teil der Informationen ist bersichtlich und kompakt in Tabellen und Schemata zusammengefa t Das Buch ist somit auch ein unverzichtbares Nachschlagewerk f r alle Synthesechemiker Aus Rezensionen der ersten Auflage Die knapp 1400 Literaturzitate machen das Buch zu einer Fundgrube f r Informationen Es sollte in keiner Chemiebibliothek fehlen The American Scientist **Classics in Stereoselective Synthesis** Erick M. Carreira,Lisbet Kvaerno,2009-02-09 This book provides a noteworthy compilation of the groundbreaking methods of stereoselective synthesis belonging to the repertoire of every modern practitioner of synthetic organic chemistry The general principles underlying these processes are highlighted as they form the basis for the rapid and continuing developments in the field The work also features illustrative examples of drug and natural product syntheses resulting in a rich source of stimulating ideas for the efficient use of asymmetric

reactions in the construction of stereochemically complex structures From the contents Macrocyclic stereocontrol Carbonyl addition reactions alpha Functionalization of enolates Aldol and allylation reactions Chiral acetals Alkene hydroboration reduction and oxidation Additions to C N bonds and synthesis of amino acids Conjugate additions Chiral carbanions Metal catalyzed allylations Cyclopropanations and CH insertion reactions Sigmatropic rearrangements Diels Alder and hetero Diels Alder reactions 3 2 and 2 2 cycloaddition reactions     *Stereochemistry and Stereoselective Synthesis* Mihály Nográdi, László Poppe, József Nagy, Gábor Hornyánszky, Zoltán Boros, 2016-09-13 Dieses Lehrbuch aus der Feder einer anerkannten und erfahrene Autoren füllt ein Lücke Endlich steht eine prägnante Einführung in Schlosskonzepte der organischen Stereochemie und in wichtige klassische sowie moderne Methoden der stereoselektiven Synthese zur Verfügung Die Konzepte sind reichhaltig in Farbe illustriert Praktische Beispiele sowie Frage Antwortabschnitte tragen zur Festigung der Lehrstoffes bei über die Wiley Website sind Animationen verfügbar Dieses Buch ist ein Muss für Studenten der Chemie Biochemie und Biowissenschaften für Forscher in Pharmaunternehmen und Firmen der Agrochemie die eine schnelle Einführung in das Fachgebiet suchen

**Stereoselective Synthesis** Atta-ur-Rahman, 1992     Stereoselective Synthesis Günter Helmchen, 1996     **Methoden Organischen Chemie** Günter Helmchen, R. Herrmann, 1996-01 Part of the Methods of Organic Chemistry series this is Part of the supplemental volumes to the 4th edition It presents a survey of chiral auxiliaries solvents reagents and catalysis Author and compound indexes are included

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