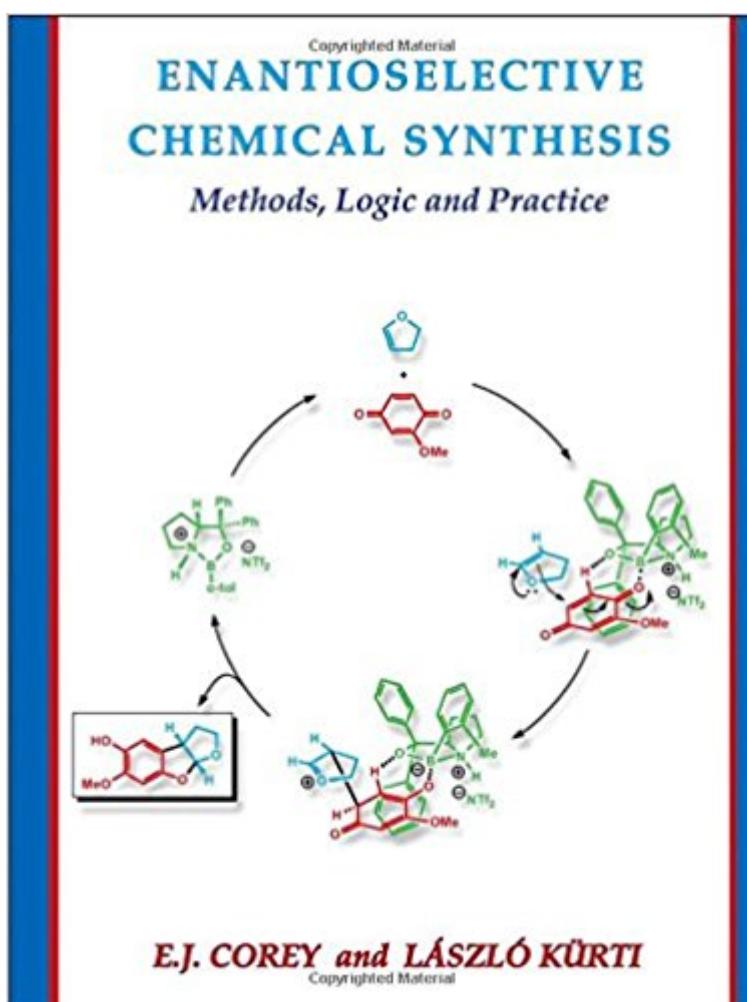


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Enantioselective Chemical Synthesis: Methods, Logic, And Practice



Synopsis

Written by world-renowned and best-selling experts, Nobel Laureate E. J. Corey and Laszlo Kurti, Enantioselective Chemical Synthesis offers an authoritative and comprehensive overview of the fieldâ™s progress; the processes and tools for key formations; future development for complex, stereocontrolled (enantiomeric or diastereoisomeric) molecules; and valuable examples of multi-step syntheses. Utilizing a color-coded scheme to illustrate chemical transformations, Enantioselective Chemical Synthesis provides clear explanation and guidance through vital asymmetrical syntheses and insight into the next steps for the field. Researchers, professionals, and academics will benefit from this valuable, thorough, and unique resource. In Part I, the authors present clearly, comprehensively and concisely the most useful enantioselective processes available to synthetic chemists. Part II provides an extensive discussion of the most logical ways to apply these new enantioselective methods to the planning of syntheses of stereochemically complex molecules. This hitherto neglected area is essential for the advancement of enantioselective synthesis to a more rational and powerful level. Part III describes in detail many reaction sequences which have been used successfully for the construction of a wide variety of complex target moleculesClearly explains stereochemical synthesis in theory and practiceProvides a handy tool box for scientists wishing to understand and apply chiral chemical synthesisDescribes almost 50 real life examples of asymmetric synthesis in practice and examines how the chiral centers were introduced at key synthetic stages

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Customer Reviews

E.J. Corey has been a Professor at Harvard University since 1959. He was educated at the Massachusetts Institute of Technology (1945-1950) and served as a faculty member at the University of Illinois from 1951-1959. He is the 1990 Nobel Laureate in Chemistry, and the recipient of over seventy international awards and honorary degrees, including the U.S. National Medal of Science, the Japan prize in Science, and the Priestley Medal of the American Chemical Society. He is a member of the U.S. National Academy of Sciences and the U.S. National Institute of Medicine. Professor Corey is the author of more than 1,000 publications and is one of the most cited authors in science. Laszlo Kurti is a faculty member in the Department of Biochemistry at UT Southwestern Medical Center in Dallas (<http://kurtilabs.com>). He received his diploma from the University of Debrecen, Hungary, where he conducted research in the laboratory of Professor Sandor Antus. Subsequently he received his MS degree at the University of Missouri-Columbia working with Professor Michael Harmata, and his Ph.D. degree (2006) in synthetic organic chemistry under the supervision of Professor Amos B. Smith III (the University of Pennsylvania). From 2006-2010, he was a Damon Runyon Cancel Fellow in the group of Professor E.J. Corey at Harvard University.

useful book for chemists working on stereoselective synthesis

Good!!

It's an excellent book for those who want to quickly find all the relevant information about various areas of asymmetric catalysis. The book presents a plethora of reactions and methods in a concise and comprehensive manner. The first part deals with various types of useful asymmetric reactions. In the second part the authors discuss the use of asymmetric reactions in total synthesis. The authors (who, by the way, hardly need an introduction) use a convenient color scheme for all reaction diagrams and the figures are neat and well-detailed. The book itself is of very high quality and will not fall apart even if you use it frequently. It is also very moderately priced for a book of such quality and scope.

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