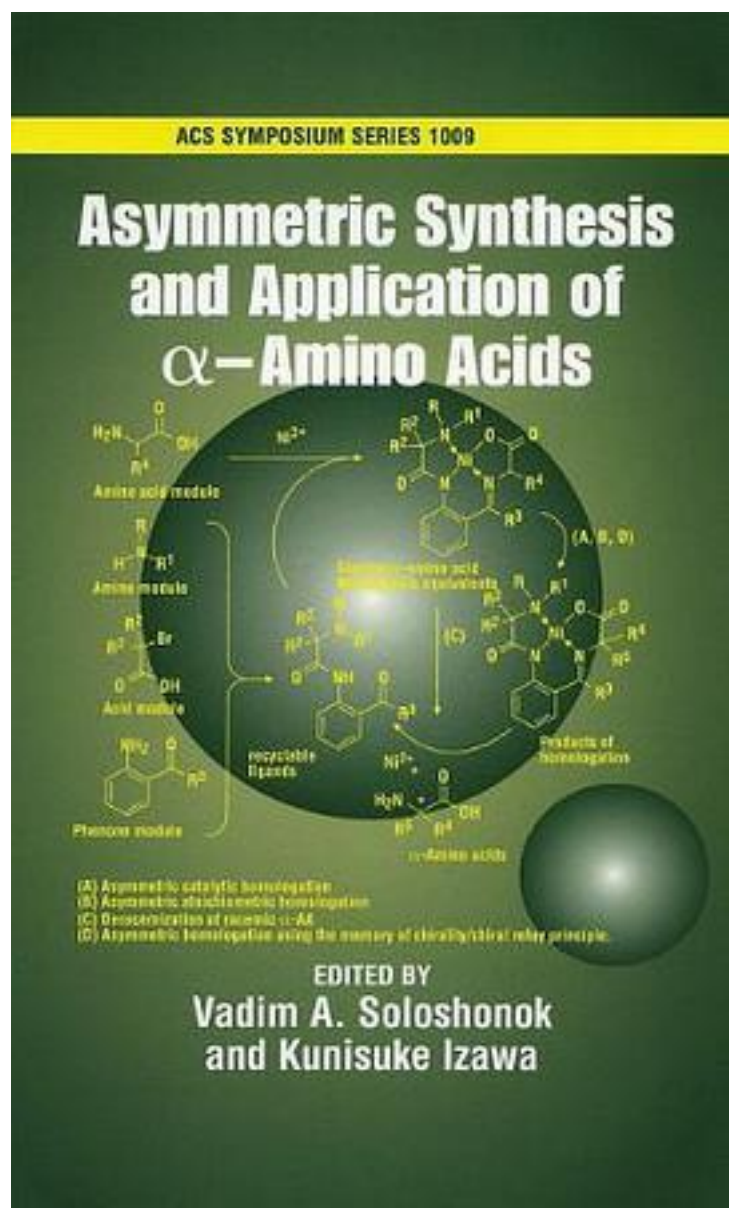


# Asymmetric Synthesis and Application of Alpha-amino Acids



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Asymmetric Synthesis and Application of alpha-Amino Acids contains 28 top-notch chapter-reviews on the most advanced methodological developments in the science of asymmetric synthesis of alpha-amino acids. Special emphasis is given to the catalytic asymmetric synthesis and industrial-scale synthesis of alpha-amino acids. The book has been designed to be a comprehensive snap-shot of current research activity in the field reviewed by internationally renowned experts from academic and industrial laboratories around the world. The general topics covered in the book include three major synthetic approaches: Stoichiometric; Catalytic and Enzymatic Approaches as well as two chapters by application of alpha-amino acids for total synthesis of complex natural compounds and one chapter on the currently most advanced approach in peptide synthesis. A substantial amount of the data reviewed in the book has never been published. In particular, cutting-age technology currently being used in industry for truly large-scale preparation of enantiomerically pure alpha-amino acids, summarized in the book, will give the reader unprecedented perspective on advanced synthetic methods which will shape the pharmaceutical market in the near future. Taking into account the significant impact that alpha-amino acids have on nearly all aspects of modern life and chemical industry, this book is expected to be a prime reference in the field and of interest to a truly diverse readership.

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