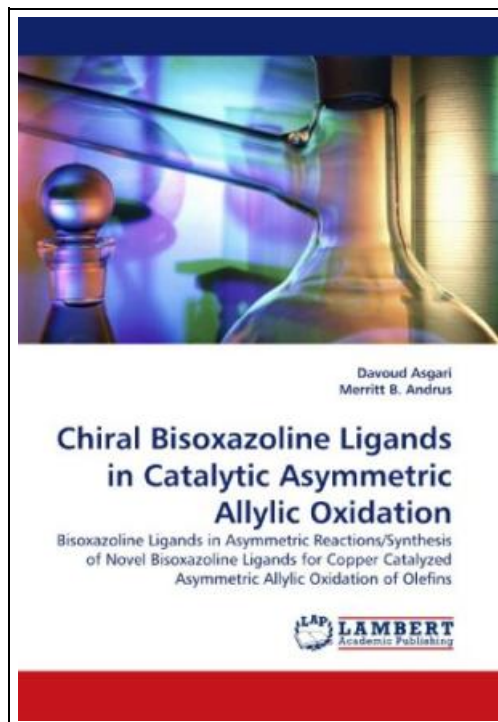


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LAP Lambert Acad. Publ. Sep 2009, 2009. Taschenbuch. Condition: Neu. Neuware - The Past three decades have witnessed a major development in asymmetric catalysis in organic synthesis. New and powerful catalysts have been designed and developed which exhibit levels of enantioselectivity previously considered beyond reach for non-enzymatic processes. Nitrogen-based transition metal ligands such as bisoxazoline ligands have emerged as an efficient class of ligands in an increasing number of asymmetric transformations including cyclopropanation, aziridination, Diels-Alder reaction, reduction, aldol reaction, ene reactions, allylic oxidation, and etc. This book reviews the synthesis and applications of bisoxazoline-metal complexes in a variety of asymmetric transformations and then describes the design and synthesis of a novel class of C₂-symmetric biarylbisoxazoline ligands and their application in copper catalyzed asymmetric allylic oxidation of olefins. Potential applications for chiral cycloalkenols derived from allylic oxidation are great. A clear example is the conversion of (S)-cyclohexenyl benzoate to the key aldehyde-methyl ester intermediate for the synthesis of inflammation mediator leukotriene B₄. 164 pp. Englisch.

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