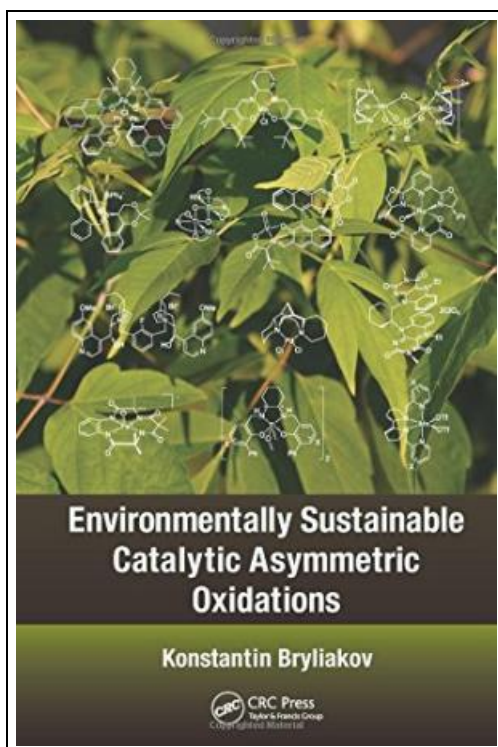


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(Maia O'Hara)

ENVIRONMENTALLY SUSTAINABLE CATALYTIC ASYMMETRIC OXIDATIONS (HARDBACK)



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Taylor Francis Inc, United States, 2014. Hardback. Condition: New. Language: English . Brand New Book. Catalysis plays a vital role in chemical, petroleum, agriculture, polymer, electronics, pharmaceutical, and other industries. Over 90 percent of chemicals originate from catalytic processes. Toughening economic and environmental constraints have proven to be a challenge for meeting the demand of novel efficient and sustainable regio- and stereoselective catalyst systems. Environmentally Sustainable Catalytic Asymmetric Oxidations provides a comprehensive overview of existing ecologically friendly catalyst systems for various asymmetric oxidation processes. Topics include: * A survey of existing transition metal-based catalyst systems for asymmetric epoxidations (AEs) with O₂ and H₂O₂ * Asymmetric sulfoxidations with H₂O₂ on chiral metal complexes * An overview of various transition metal-catalyzed oxidative transformations with H₂O₂ or O₂ used as the terminal oxidant * Organocatalytic asymmetric oxidations * Catalytic processes of stereospecific oxidations of C-H functional groups * The role that oxoiron(V) intermediates play in chemo- and stereoselective oxidations catalyzed by non-heme iron complexes The book concludes with a discussion of the opportunities and problems associated with the industrial application of stereoselective processes of catalytic oxidation with H₂O₂ and O₂. It also provides examples of processes with industrial potential. Some of the catalysts presented in this book may serve as promising alternatives for existing catalysts- progressively replacing them in manufacturing processes and ultimately making the chemical industry greener and cleaner.



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