Green Separation Processes. Fundamentals and Applications

Description: This timely book is the first to provide a comprehensive overview of all important aspects of this modern technology with the focus on the "green aspect". The expert authors present everything from reactions without solvents to nanostructures for separation methods, from combinatorial chemistry on solid phase to dendrimers. The result is a ready reference packed full of valuable facts on the latest developments in the field – high–quality information otherwise widely spread throughout articles and reviews.

From the contents:
* Green chemistry for sustainable development
* New synthetic methodologies and the demand for adequate separation processes
* New developments in separation processes
* Future trends and needs

It is a "must–have" for every researcher in the field.

Contents:

GREEN CHEMISTRY FOR SUSTAINABLE DEVELOPMENT

Green Chemistry and Environmentally Friendly Technologies
Sustainable Development and Regulation

NEW SYNTHETIC METHODOLOGIES AND THE DEMAND FOR ADEQUATE SEPARATION PROCESSES

Microreactor Technology for Organic Synthesis
Solventless Reactions (SLR)
Combinatorial Chemistry on Solid Phase

NEW DEVELOPMENTS IN SEPARATION PROCESSES

Overview of "Green " Separation Processes
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Green Enantiomeric Separations by Inclusion Complexation
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Vapour Permeation and Pervaporation
Functionalized Magnetic Particles
Dendrimers
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