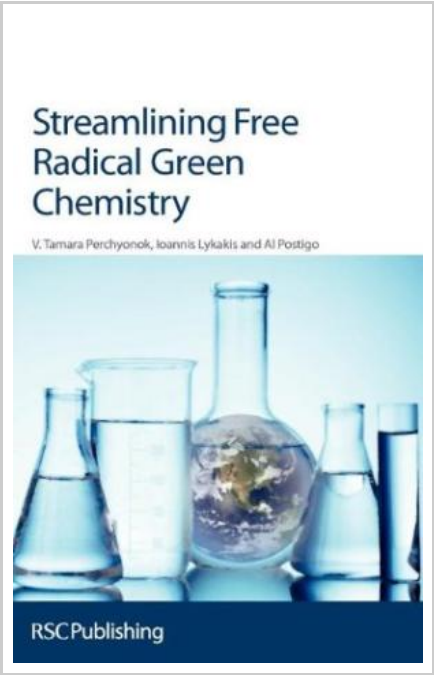

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Streamlining Free Radical Green Chemistry

By Tamara Perchyonok

Royal Society of Chemistry. Hardcover. Book Condition: New. Hardcover. 804 pages. Dimensions: 9.3in. x 6.4in. x 2.0in.The environmental and health hazards created by industrial chemicals and consumer products must be minimized. For safer products to be designed, the relationships between structure and toxicity must be understood at the molecular level. Green chemistry combined with free radical research has the potential to offer innovative solutions to such problems. Some solutions are greener then others, and many necessitate significant financial investment. New technology will only be adopted if real benefit can be shown and sometimes adaptation of existing methods is the best option. The efficiency of processes must be assessed, not only in terms of the final yield, but also cost, environmental impact and waste toxicity. This practical and concise guide showcases the sustainable methods offered by green free radical chemistry and summarizes the fundamental science involved. It discusses the pros and cons of free radical chemistry in aqueous systems for synthetic applications. All transformation steps are covered including initiation, propagation, and termination. Useful background knowledge is combined with examples, including industrial scale processes for pharmaceuticals and fine chemicals. The book helps chemists to choose appropriate methods for achieving maximum output using...

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