



Green Syntheses, Volume 1 (Green Syntheses Series)

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Many new methods directed to organic and inorganic syntheses of useful intermediates are being developed to specifically address green and sustainable chemistry principles. Highlighting the importance of green metrics, the *Green Syntheses* series focuses on how to reliably substantiate and validate the level of "greenness" of chemical processes, providing practical synthetic methodologies and metrics for a rigorous proof of "greenness." In **Green Syntheses, Volume 1**, the first book of its kind, the editors determine appropriate material efficiency green metrics and use them to compare syntheses provided by the chapter authors with those previously published.

Presenting a new concept in green chemistry, this book demonstrates what future publications might look like if green principles are followed and also incorporate the important ethical aspect of supplying rigorous procedures in laboratory practice and evidence of greenness of a given synthesis protocol using metrics analysis. This inaugural volume initiates the much-needed transition from stating the 12 guiding principles on the philosophy of green chemistry to the actualization and verification of it.

The book addresses primarily the issue of material efficiency metrics, which measure the amount of waste produced relative to desired product. In each contributed example, full experimental details are given showing all quantities of materials used in the procedure. Authors discuss the green merits of their protocols in conjunction with the results of a thorough metrics analysis, allowing for in-depth discussion of insights about synthesis strategy and performance characteristics of the new and prior cited plans.

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