Green Sustainable Process for Chemical and Environmental Engineering and Science: Microwaves in Organic Synthesis

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Synopsis

Microwaves in Organic Synthesis provides an in-depth overview in the area of organic and pharmaceutical chemistry of the microwave technology in separation, purification and extraction of medicinal, biological, and organic compounds.This book methodically explores the application of microwaves in all types of organic synthesis. It includes stereoselectivity, regioselectivity, oxidation, reduction, protection, deprotection, addition, condensation, coupling, C-X bond formation, named reactions, heterocyclic, biological drugs, fluoro-organics and polymers. After a brief introduction discusses the main parameters which influence the process, and the limitations and advantages of the practical use of microwave in organic synthesis. This book is a vital resource on green chemistry technologies for students and academic researchers, R& D professionals, students and university professors working in the field of organic chemistry, medicinal chemistry and chemical engineering.Outlines microwave technology for green organic synthesisIncludes a description of the significant factors and challenges of the microwave-assisted green organic synthesisOutlines the eco-friendly microwave based chemical processes and their applications in organic reactions, polymer synthesis, biofuel production, etc.Gives detail account of the numerous real industrial applications such as polymers, pharmaceutical, fluoroorganics, biofuel, carbon, etc.Discusses recent advances in microwave technology in organic chemistry

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