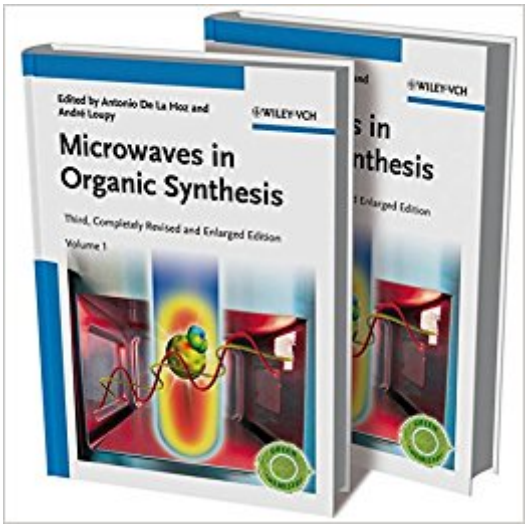
Microwaves In Organic Synthesis, 2 Volume Set



Synopsis

The third edition of the bestselling two-volume reference covers everything you need to know about microwave technology for synthesis - from the best equipment to nonthermal effects, from solid-support reactions to catalysis. Completely revised and updated with half of the authors completely new to the project, this comprehensive work is clearly divided into two parts on the fundamentals of microwave irradiation, and application of microwaves and synergies with other enabling techniques. Also new to this edition are chapters on on-line monitoring, flow chemistry, combination with ultrasounds and natural products, including multicomponent reactions. An indispensable source for organic, catalytic, physical, and medicinal chemists.

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AndrÃ Â¿Â Loupy received his PhD in 1975 from Paris-South University under the direction of Dr.

Jacqueline Seyden-Penne in the Centre National de la Recherche Scientifi que (CNRS) in Thiais. He joined the Laboratory of Selective Reactions in Centre of Orsay from Paris-South University (director : Pr. Georges Bram). He became the first class director of research at CNRS, where he led this lab until the end of 2005 when he retired. He was co-author of roughly 300 publications and 10 chapters in several books. Together with Pr. Georges Bram, Dr. Loupy was concerned with microwave activation since 1987, especially when coupled with safe and economical solvent-free conditions ('green chemistry') and the non-alimentary valorization of products from agriculture. His most recent research was focused on medium effects in organic synthesis including solvent and salt effects, solvent-free conditions with a special interest in supported reactions and phase transfer catalysis and activation by microwaves. Antonio de la Hoz is Professor in Organic Chemistry in the University of Castilla-La Mancha. He obtained his PhD from the Universidad Complutense in Madrid in 1986 under the supervision of Prof. JosÃ Â¿Â Elguero and Carmen Pardo. After postdoctoral research in 1987 with Prof. Mikael Begtrup at the Danmarks Tekniske HÃ Â¿Â skole, Denmark, he joined the Faculty of Chemistry of the Universidad de Castilla-La Mancha in Ciudad Real in 1988 as an Assistant Professor. In 1993 he worked under the supervision Prof. AndrÃ Â¿Â Loupy in the UniversitÃ Â¿Â de Paris-Sud in Microwave Assisted Organic Chemistry. Prof. de la Hoz has authored over 170 scientific publications - 100 of them related to Microwaves in Organic Synthesis. Dr. de la Hoz is a founding member of the Spanish Green Chemistry Network. His current research interests focus on Green methodologies, microwave activation, mechanochemistry, flow methodologies and solvent-free reactions, and the applications of heterocyclic compounds in material and supramolecular chemistry.

Organic Chemistry) Organometallics in Organic Synthesis (Volume 1) Volume 2, Fiesers' Reagents for Organic Synthesis Fieser and Fieser's Reagents for Organic Synthesis, Volume 10 Volume 3, Fiesers' Reagents for Organic Synthesis Advanced Organic Chemistry: Part B: Reaction and Synthesis Strategic Applications of Named Reactions in Organic Synthesis Signposts to Chiral Drugs: Organic Synthesis in Action Fundamentals and Applications of Organic Electrochemistry: Synthesis, Materials, Devices Transition Metals in the Synthesis of Complex Organic Molecules Organic Synthesis: The Roles of Boron and Silicon (Oxford Chemistry Primers)