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Organic Chemistry

# Practical Microwave Synthesis for Organic Chemists

Strategies, Instruments, and Protocols

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This introductory guide for beginners systematically introduces the foundations and applications of microwave heating in organic reactions, taking into account the full spectrum of available instruments, reaction modes and processing techniques.

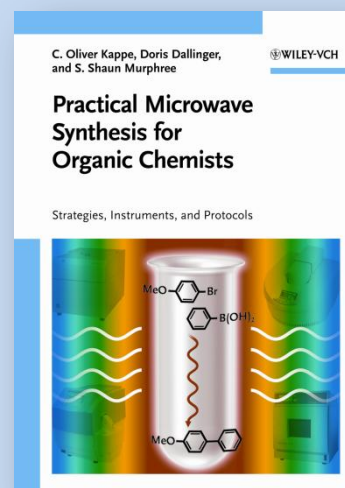
Written with the first-time user in mind, this book can be used for self-help, as a laboratory bench-top reference, or for teaching a practical course in microwave-assisted synthesis.

Its experimental section contains detailed protocols for 27 standard reactions that feature a variety of microwave instruments from all major commercial suppliers.

Review of Kappe's previous book on microwave chemistry stated, "*The text is well-written and ... misses little in the way of technical or chemical detail. ... A very enjoyable and interesting book.*"

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## CONTENTS

### Introduction to Microwave-assisted Synthesis

Basic Principles of Microwave Chemistry  
- radiation, dielectric heating, microwave effects

### Microwave Reactors for Organic Synthesis

- single- and multimode cavities, overview of commercially available instruments

### Getting Started with Microwaves

- how and when to use microwaves, practical tips, safety aspects

### General Methods

-open/closed vessels, parallel processing, high-throughput techniques, scale-up

### Practical Examples of Microwave-assisted Reactions

- contains detailed descriptions of 27 standard organic reactions  
- includes real data obtained with different microwave reactors

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