



## Microwave-assisted Extraction for Bioactive Compounds: Theory and Practice (Hardback)

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Springer-Verlag New York Inc., United States, 2012. Hardback. Condition: New. 2013 ed.. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. With increasing energy prices and the drive to reduce CO2 emissions, food industries are challenged to find new technologies in order to reduce energy consumption, to meet legal requirements on emissions, product/process safety and control, and for cost reduction and increased quality as well as functionality. Extraction is one of the promising innovation themes that could contribute to sustainable growth in the chemical and food industries. For example, existing extraction technologies have considerable technological and scientific bottlenecks to overcome, such as often requiring up to 50 of investments in a new plant and more than 70 of total process energy used in food, fine chemicals and pharmaceutical industries. These shortcomings have led to the consideration of the use of new green techniques in extraction, which typically use less solvent and energy, such as microwave extraction. Extraction under extreme or non-classical conditions is currently a dynamically developing area in applied research and industry. Using microwaves, extraction and distillation can now be completed in minutes instead of hours with high reproducibility, reducing the consumption of solvent, simplifying manipulation and work-up,...



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