Enhancing Extraction Processes in the Food Industry (Hardback)

By -

Taylor Francis Inc, United States, 2011. Hardback. Book Condition: New. New.. 234 x 155 mm. Language: English . Brand New Book. Extraction is an important operation in food engineering, enabling the recovery of valuable soluble components from raw materials. With increasing energy costs and environmental concerns, industry specialists are looking for improved techniques requiring less solvents and energy consumption. Enhancing Extraction Processes in the Food Industry is a comprehensive resource providing clear descriptions of the latest extraction methods and instruments used in food laboratories. The book begins with an overview of solvent extraction technology. It examines pulsed electric fields and their effect on food engineering, and the potential and limitations of microwave-assisted extraction. It explores diffusion processes and reviews what is known about electrical discharge processes in the extraction of biocompounds. Next, the book summarizes current knowledge on conventional and innovative techniques for the intensification of extractions from food and natural products, focusing on environmental impacts. It reviews recent developments in supercritical CO_2 extraction of food and food products, describes the pressurized hot water extraction (PHWE) process, and examines future trends for PHWE. The book also examines essential oil extraction, and the tools and techniques of high pressure-assisted extraction. The...

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