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Enhancing Extraction Processes in the Food Industry (Contemporary Food Engineering)

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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 authors demonstrate its application using litchi and longan fruits as examples.

The final chapters focus on extrusion-assisted extraction, gas-assisted mechanical expression, mechanochemically assisted extraction, reverse micellar extraction, and aqueous two-phase extraction. The book concludes with a chapter on the treatment of soybeans through enzyme-assisted aqueous processing, examining the economics involved as well as the development of the process.

A solid review of modern approaches that enhance extraction processes, this volume is destined to pave the

way for future research and development in the field.

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