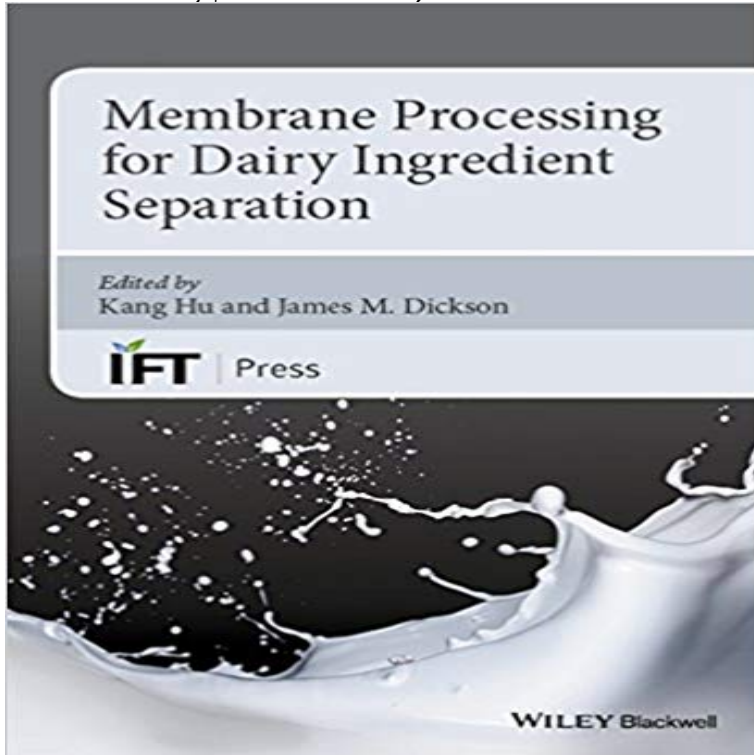


# Membrane Processing for Dairy Ingredient Separation (Institute of Food Technologists Series)



Membrane processing is a filtration technique in which particles are separated from liquids by being forced through a porous material, or membrane. Applied to dairy products, the separation techniques allow valuable compounds, found in milk, to be isolated for use as ingredients in food processing. A comprehensive overview of membrane separation processes, this book explores various applications such as pressure driven processes, electrical field driven processes, and concentration driven processes, for the recovery of various dairy streams and ingredients. The topics covered place emphasis on new applications, including microfiltration, ultrafiltration, reverse osmosis, electrodialysis, and pervaporation. The text also presents in-depth knowledge of the mechanisms of each membrane separation process, as well as membrane types and the equipment used in these processes. Combining their educational backgrounds and substantial industrial experience in dairy ingredients processes, the authors address cutting-edge technologies that have been thoroughly researched and have great potential to be commercialized in the near future. The book will therefore be of interest to dairy industry professionals and will serve as a source of reference material for professors and students in food science and engineering.

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