



## Food Processing Operations Modeling: Design and Analysis (Hardback)

By Joseph M. Irudayaraj, Soojin Jun

Taylor Francis Inc, United States, 2008. Hardback. Condition: New. 2nd Revised edition. Language: English . Brand New Book. The food industry is on the verge of making some serious advances in the food processing sector. If successful, tomorrow s consumers will have unhindered access to safe, nutritious, and high-quality products via novel food processing technologies. Food Processing Operations Modeling: Design and Analysis, Second Edition demonstrates how to effectively use numerical modeling to predict the effects of food processing on targeted components. This non-destructive testing method virtually eliminates the health risks of under-processed food and maintains high nutritional values that are often lost in overcooked food. Using a task-oriented approach, this second edition discusses basic and advanced modeling tools that allow researchers to predict and prevent worse-case scenarios, perform comprehensive analyses, and optimize system design and efficiency. Contains Selected Applications of Thermal and Non-Thermal Processing Operations NEW TO THIS EDITION: \* Six new chapters on radio frequency heating, high-pressure processing, pulsed electric field treatment, fouling model on heat exchangers, ozone treatment, and UV radiation \* Expanded scope to address innovative and up-to-date food processing technologies \* Numerous real-world case studies \* Updated information on infrared heating of biological materials and modeling...



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