



Kinetic Modeling of Reactions In Foods (Food Science and Technology)

Martinus A.J.S. van Boekel

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The level of quality that food maintains as it travels down the production-to-consumption path is largely determined by the chemical, biochemical, physical, and microbiological changes that take place during its processing and storage. Authored by an internationally respected food quality expert, **Kinetic Modeling of Reactions in Foods** demonstrates how to effectively capture these changes in an integrative fashion using mathematical models. Thus, kinetic modeling of food changes creates the possibility to control and predict food quality from a technological point of view.

Illustrating how kinetic modeling can predict and control food quality from farm to fork, this authoritative resource:

- Applies kinetic models using general chemical, physical, and biochemical principles
- Introduces Bayesian statistics in kinetic modeling, virtually uncharted territory in the food science field
- Integrates food science, kinetics, and statistics to predict and control food quality attributes using computer models
- Uses real-world examples rather than hypothetical data to illustrate concepts

This essential reference is an indispensable guide to understanding all aspects of kinetic food modeling. Unlike many other kinetic volumes available, this book opens the door to the many untapped research opportunities in the food science realm where mathematical modeling can be applied.

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