Table of Contents

INTRODUCTION: PROCESSING, SAFETY, AND QUALITY.

Food Preservation Technologies.

Overview of Food Safety.

Food Quality Perception.

EVALUATING THE SAFETY AND QUALITY OF FOODS.

Models for Microorganism Inactivation: Application in Food Preservation Design.

Kinetics of Chemical Reactions and the Case of Monitoring Phenolic Compounds by High-Performance Liquid Chromatography Coupled with Mass Spectrometry.

Use of Survival Analysis Statistics in Analyzing the Quality of Foods from a Consumer's Perspective.

EFFECTS OF SPECIFIC TECHNOLOGIES ON SAFETY AND QUALITY.

Safety and Quality of Thermally Processed Foods in Hermetically Sealed Containers.

Alternative Heating Technologies.

Acrylamide Formation and Reduction in Fried Potatoes.

Safety and Quality Effects in Foods Stored under Modified Atmosphere Conditions.

Effects of Chilling and Freezing on Safety and Quality of Food Products.

Drying and Dried Food Quality.

Safety and Quality of Irradiated Food.

Improving Food Safety and Quality by High-Pressure Processing.

Temperature Distribution and Chemical Reactions in Foods Treated by Pressure-Assisted Thermal Processing.

Food Quality and Safety Issues during Pulsed Electric Field Processing.

Solid–Liquid Separations in Food Processing: Relevant Aspects in Safety and Quality.

INTEGRATIVE APPROACH: SAFETY AND QUALITY IN FOOD PLANT DESIGN.

The SAFES Methodology: A New Approach for Real-Food Modeling, Optimization, and Process Design.

Development and Implementation of Food Safety Programs in the Food Industry.