

Table of Contents

Modeling of Thermal Food Processes

Thermal Physical Properties of Foods; *Adriana E. Delgado, Da-Wen Sun, and Amelia C. Rubiolo*

Heat and Mass Transfer in Thermal Food Processing; *Lijun Wang and Da-Wen Sun*

Thermal Effects in Food Microbiology; *Mogessie Ashenafi*

Simulating Thermal Food Processes Using Deterministic Models; *Arthur A. Teixeira*

Modeling Food Thermal Processes Using Artificial Neural Networks; *Cui ren Chen and Hosahalli S. Ramaswamy*

Modeling Thermal Processing Using Computational Fluid Dynamics (CFD); *Xiao Dong Chen and Da-Wen Sun*

Modeling Thermal Microbial Inactivation Kinetics; *Ursula Andrea Gonzales Barron*

Quality and Safety of Thermally Processed Foods

Thermal Processing of Meat and Meat Products; *Brijesh K. Tiwari and Colm O'Donnell*

Thermal Processing of Poultry Products; *Paul L. Dawson, Sunil Mangalassary, and Brian W. Sheldon*

Thermal Processing of Fishery Products; *María Isabel Medina Méndez and José Manuel Gallardo Abuín*

Thermal Processing of Dairy Products; *Alan L. Kelly, Nivedita Datta, and Hilton C. Deeth*

Ultrahigh Temperature Thermal Processing of Milk; *Pamela Manzi and Laura Pizzoferrato*

Thermal Processing of Canned Foods; *Z. Jun Weng*

Thermal Processing of Ready Meals; *Gary Tucker*

Thermal Processing of Vegetables; *Jasim Ahmed and U.S. Shivhare*

Thermal Processing of Fruits and Fruit Juices; *Catherine M.G.C. Renard and Jean-François Maingonnat*

Innovations in Thermal Food Processes

Aseptic Processing and Packaging; *Min Liu and John D. Floros*

Ohmic Heating for Food Processing; *António Augusto Vicente, Inês de Castro, José António Teixeira,*

and Ricardo Nuno Pereira

Radio Frequency Dielectric Heating; *Yanyun Zhao and Qingyue Ling*

Infrared Heating; *Noboru Sakai and Weijie Mao*

Microwave Heating; *Servet Gulum Sumnu and Serpil Sahin*

Combination Treatment of Pressure and Mild Heating; *Takashi Okazaki and Yujin Shigeta*

pH-Assisted Thermal Processing; *Alfredo Palop and Antonio Martínez Lopez*

Time–Temperature Integrators for Thermal Process Evaluation; *Antonio Martínez Lopez, Dolores Rodrigo, Pablo S. Fernández, M. Consuelo Pina-Pérez, and Fernando Sampedro*

Index